SAMSUNG

MICRO COMPONENT SYSTEM

MM-26

SERVICE Manual

MICRO COMPONENT SYSTEM

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Code No. AH68-20129A

1. Precautions

Follow these safety, servicing and ESD precautions to prevent damage and protect against potential hazards such as electrical shock and X-rays.

1-1 Safety Precautions

1. Be sure that all of the built-in protective devices are replaced.

2. When reinstalling the chassis and its assemblies, be sure to restore all protective devices, including control knobs and compartment covers.

3. Make sure that there are no cabinet openings through which people--particularly children--might insert fingers and contact dangerous voltages. Such openings include the spacing between the picture tube and the cabinet mask, excessively wide cabinet ventilation slots, and improperly fitted back covers.

4. Design Alteration Warning:
   Never alter or add to the mechanical or electrical design of the unit. Example: Do not add auxiliary audio or video connectors. Such alterations might create a safety hazard. Also, any design changes or additions will void the manufacturer's warranty.

5. Leakage Current Hot Check (Figure 1-1):
   Warning: Do not use an isolation transformer during this test. Use a leakage-current tester or a metering system that complies with American National Standards Institute (ANSI C101.1, *Leakage Current for Appliances*), and Underwriters Laboratories (*UL Publication UL1410, 59.7*).

   With the unit completely reassembled, plug the AC line cord directly into a 120V AC outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, etc.) and all exposed metal parts. Examples: Handle brackets, metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the power-plug prongs in the AC outlet and repeat.

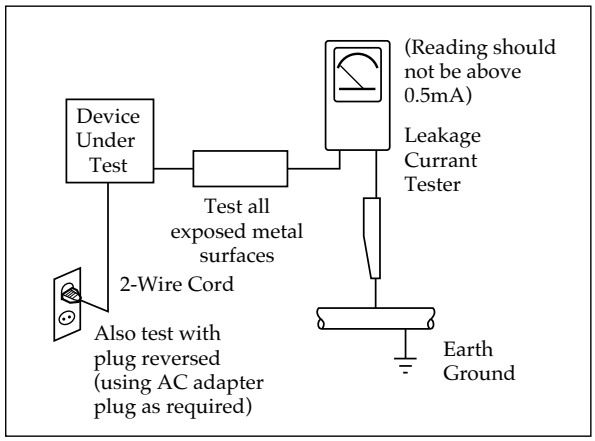

(Reading should not be above 0.5mA)
Device Under Test
Leakage Currant Tester
Test all exposed metal surfaces
2-Wire Cord
Also test with plug reversed (using AC adapter plug as required)
Earth Ground

Fig. 1-1 AC Leakage Test

6. Insulation Resistance Cold Check:
   (1) With the unit's AC plug disconnected from the AC source, connect an electrical jumper across the two AC prongs. (2) Set the power switch to ON. (3) Measure the resistance between the shorted AC plug and any exposed metallic parts. Example: Screwheads, antenna, control shafts or handle brackets.

   If any of the exposed metallic parts has a return path to the chassis, the measured resistance should be between 1 and 5.2 megohms. If there is no return path, the measured resistance should be "infinite." If the resistance is outside these limits, a shock hazard might exist. See Figure 1-2

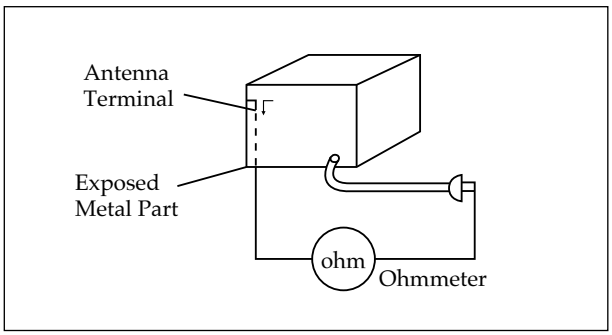


Fig. 1-2 Insulation Resistance Test

1-1 Safety Precautions (Continued)

7. Components, parts and wiring that appear to have overheated or that are otherwise damaged should be replaced with parts that meet the original specifications. Always determine the cause of damage or overheating, and correct any potential hazards

8. Observe the original lead dress, especially near the following areas: Antenna wiring, sharp edges, and especially the AC and high voltage power supplies. Always inspect for pinched, out-of-place, or frayed wiring. Do not change the spacing between components and the printed circuit board. Check the AC power cord for damage. Make sure that no wires or components touch thermally hot parts.

9. Product Safety Notice:
Some electrical and mechanical parts have special safety-related characteristics which might not be obvious from visual inspection. These safety features and the protection they give might be lost if the replacement component differs from the original--even if the replacement is rated for higher voltage, wattage, etc.

10 Components that are critical for safety are indicated in the circuit diagram by shading, ⚠ or ⚠ . Use replacement components that have the same ratings, especially for flame resistance and dielectric strength specifications. A replacement part that does not have the same safety characteristics as the original might create shock, fire or other hazards.

1-2 Servicing Precautions

Warning1: First read the "Safety Precautions" section of this manual. If some unforeseen circumstance creates a conflict between the servicing and safety precautions, always follow the safety precautions.

1. Servicing precautions are printed on the cabinet. Follow them.

2. Always unplug the unit's AC power cord from the AC power source before attempting to: (a) Remove or reinstall any component or assembly, (b) Disconnect an electrical plug or connector, (c) Connect a test component in parallel with an electrolytic capacitor.

3. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring may be clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.

4. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the portion around the serviced part has not been damaged.

5. Check the insulation between the blades of the AC plug and accessible conductive parts (examples: metal panels, input terminals and earphone jacks).

6. Insulation Checking Procedure: Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500V) to the blades of the AC plug.

   The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.

7. Never defeat any of the B+ voltage interlocks. Do not apply AC power to the unit (or any of its assemblies) unless all solid-state heat sinks are correctly installed.

8. Always connect a test instrument's ground lead to the instrument chassis ground *before* connecting the positive lead; always remove the instrument's ground lead last.

1-3 Precautions for Electrostatically Sensitive Devices (ESDs)

1. Some semiconductor ("solid state") devices are easily damaged by static electricity. Such components are called Electrostatically Sensitive Devices (ESDs). Examples include integrated circuits and some field-effect transistors. The following techniques will reduce the occurrence of component damage caused by static electricity.

2. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. (Be sure to remove it prior to applying power--this is an electric shock precaution.)

3. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of electrostatic charge.

4. Do not use freon-propelled chemicals. These can generate electrical charges that damage ESDs.

5. Use only a grounded-tip soldering iron when soldering or unsoldering ESDs.

6. Use only an anti-static solder removal device. Many solder removal devices are not rated as "anti-static" (these can accumulate sufficient electrical charge to damage ESDs).

7. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.

8. Immediately before removing the protective material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.

9. Minimize body motions when handing unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting a foot from a carpeted floor can generate enough static electricity to damage an ESD.

1-4 Special Precautions and Warning Labels for Laser Products

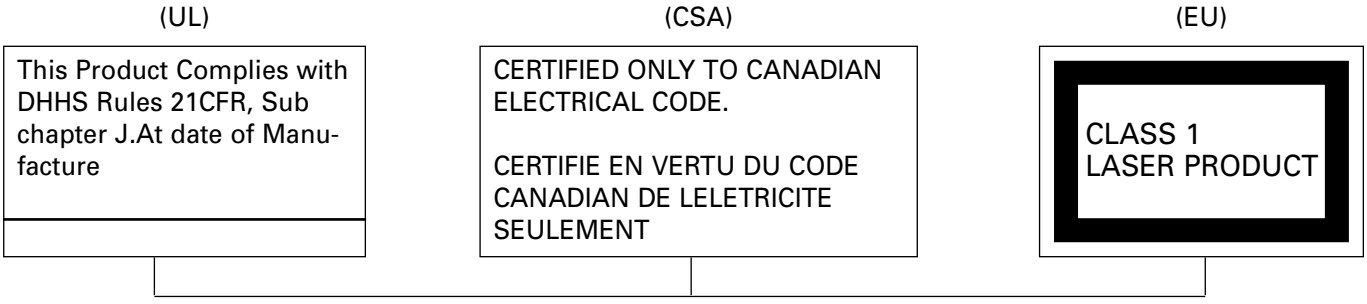

(UL)
This Product Complies with DHHS Rules 21CFR, Sub chapter J.At date of Manu-facture
(CSA)
CERTIFIED ONLY TO CANADIAN ELECTRICAL CODE.
CERTIFIE EN VERTU DU CODE CANADIAN DE LELETRICITE SEULEMENT
(EU)
CLASS 1
LASER PRODUCT

Fig. 1-3 Warning Labels (Location: Enclosure Block)

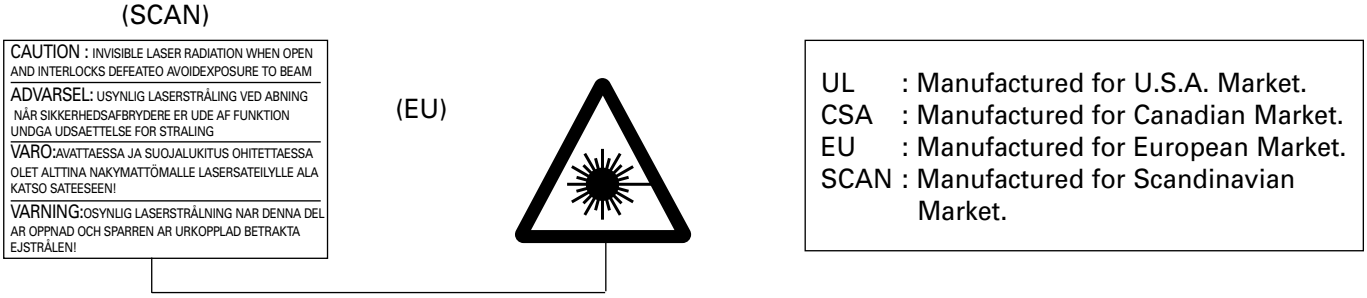

(SCAN)
CAUTION : INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATEO AVOIDEXPOSURE TO BEAM
ADVARSEL: USYNLIG LASERSTRÅLING VED ABNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION UNDGA UDSAETTELSE FOR STRALING
VARO:AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTINA NAKYMATTÖMALLE LASERSATEILYLLE ALA KATSO SATEESEEN!
VARNING:OSYNLIG LASERSTRÅLNING NAR DENNA DEL AR OPPNAD OCH SPARREN AR URKOPPLAD BETRAKTA EJSTRÅLEN!
(EU)
UL : Manufactured for U.S.A. Market.
CSA : Manufactured for Canadian Market.
EU : Manufactured for European Market.
SCAN : Manufactured for Scandinavian Market.

Fig. 1-4 Warning Labels (Location: Disc Clamper, Inner Side of Unit Door or Nearby Unit Chassis)

1-4 Special Precautions and Warning Labels for Laser Products (Continued)

1-4-1 Warnings

1. When servicing, do not approach the LASER exit with the eye too closely. In case it is necessary to confirm LASER beam emission, be sure to observe from a distance of more than 30 cm from the surface of the objective lens on the optical pick-up block.

2. Do not attempt to handle the objective lens when the DISC is not on the tray.

1-4-2 Laser Diode Specifications

Material: GaAs+ GaAlAs
Wavelength: 760-800 nm
Emission Duration: Continuous

Laser Output: 0.2 mw (measured at a 1.6 mm distance from the objective lens surface on the optical pick-up block.)

1-4-3 Handling the Optical Pick-up

1. Static electricity from clothing or the body may cause electrostatic breakdown of the laser diode in the Optical Pickup. Follow this procedure:

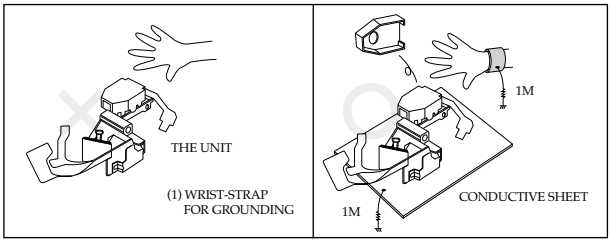
2. Place a conductive sheet on the work bench (i.e., the black sheet used for wrapping repair parts.) Note: The surface of the work bench should be covered by a copper ground plane, which is grounded.

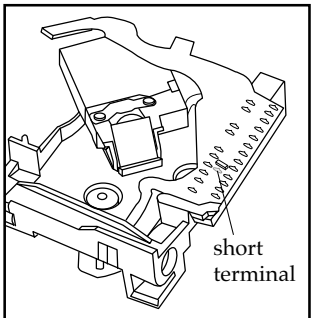
3. The repair technician must wear a wrist strap which is grounded to the copper sheet.

4. To remove the Optical Pickup block: Place the set on the conductive sheet, and momentarily touch the conductive sheet with both hands. (While working, do not allow any electrostatic sources--such as clothes--to touch the unit.)

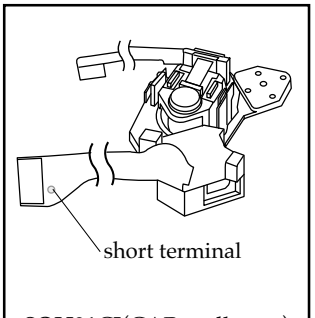
5. Ground the "Short Terminal" (located on the PCB, inside the Pickup Assembly) before replacing the Pickup. This terminal should be shorted whenever the Pickup Assembly is lifted or moved.

6. After replacing the Pickup, reopen the Short Terminal. See diagrams below:

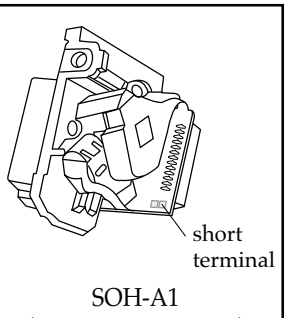




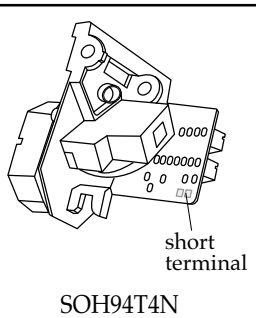
SOH91VI(LDP)



SOH91CI(CAR,walkman)



SOH-A1
(CMS-V10,CMS-V30)



SOH94T4N
(CMS-V10,CMS-V30)

2. Specifications

General		Power source Power consumption Dimensions (mm)	AC 230V 50Hz (Option) 90W 162(W)x280(H)x278(D)
Amp		Power output Total harmonic distortion Frequency range Signal to noise ratio Channel separation	12.5W/CH 0.5% 50Hz ~ 30KHz 70dB 40dB
Tuner	FM	Frequency range Usable sensitivity Signal to noise ratio IF rejection ratio Total harmonic distoration Separation (Stereo)	87.5 ~ 108MHz 10dB 50dB 60dB 1.5% 25dB
	MW	Frequency range Usable sensitivity Signal to noise ratio IF rejection ratio Total harmonic distoration	522 ~ 1611KHz 50dB 40dB 33dB 2%
	LW	Frequency range Usable sensivity Signal to noise ratio	146 ~ 290KHz 60dB 33dB
Cassette		Frequecny range WOW FLUTTER Erasing effect Signal to noise ratio Total harmonic distortion	125Hz ~ 8KHz 0.2% 50dB 40dB 2.5%
Compact Disc		Frequency response Signal to noise ratio Channel separation Total harmonic distortion	100Hz ~ 10KHz(¡ 1dB) 85dB(1kHz 0dB) 75dB(1kHz 0dB) 0.1%(1kHz 0dB)

* Specifications are subject to change without notice.

3. Disassembly and Reassembly

3-1 Cabinet-Top, Cabinet-Rear

1. Remove 8 screws of ① and 6 screws of ② of its rear part.
2. Pull its top part upward vertically as shown in the figure 3-1.

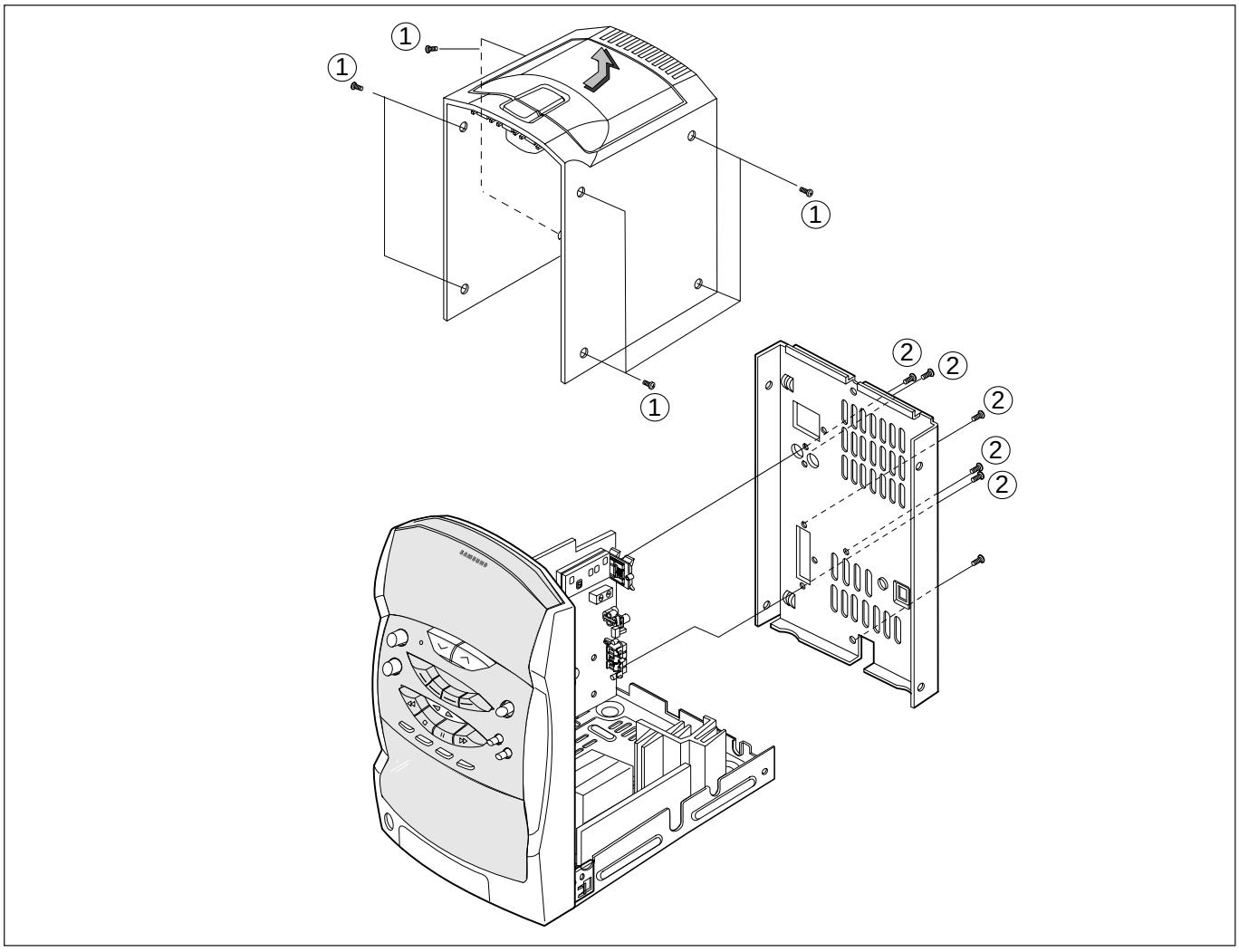


Figure 3-1

3-2 Main-PCB

1. Remove the Main-PCB backward.

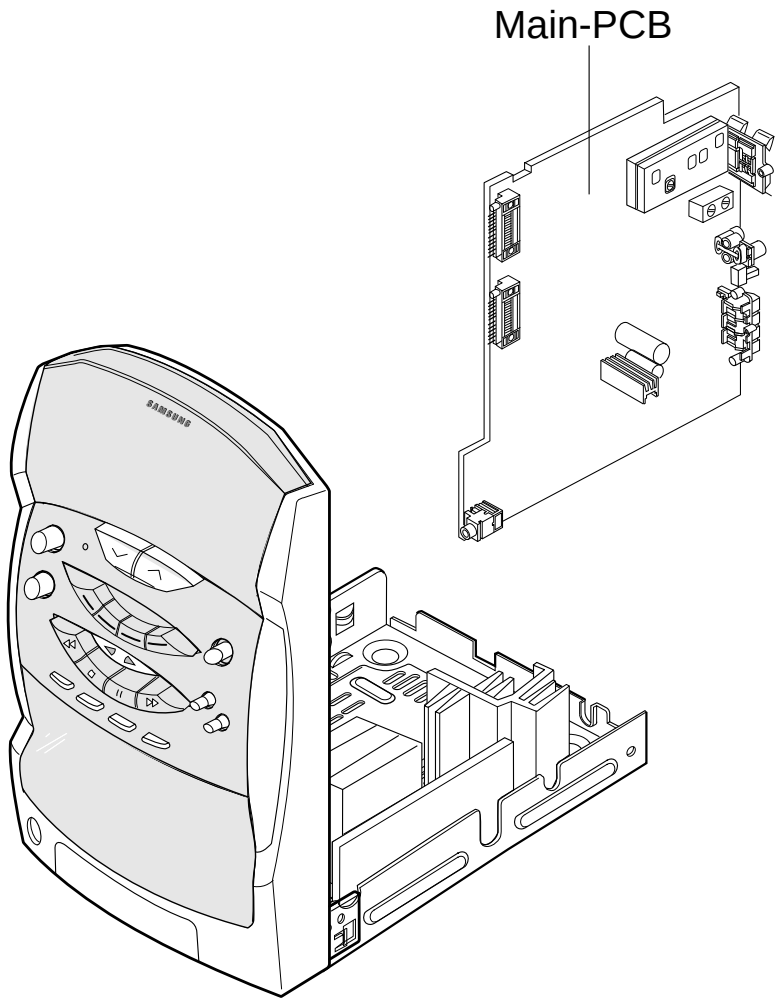


Figure 3-2

3-3 Cabinet-Bottom

1. Remove 3 screws of ① and pull it out backward.

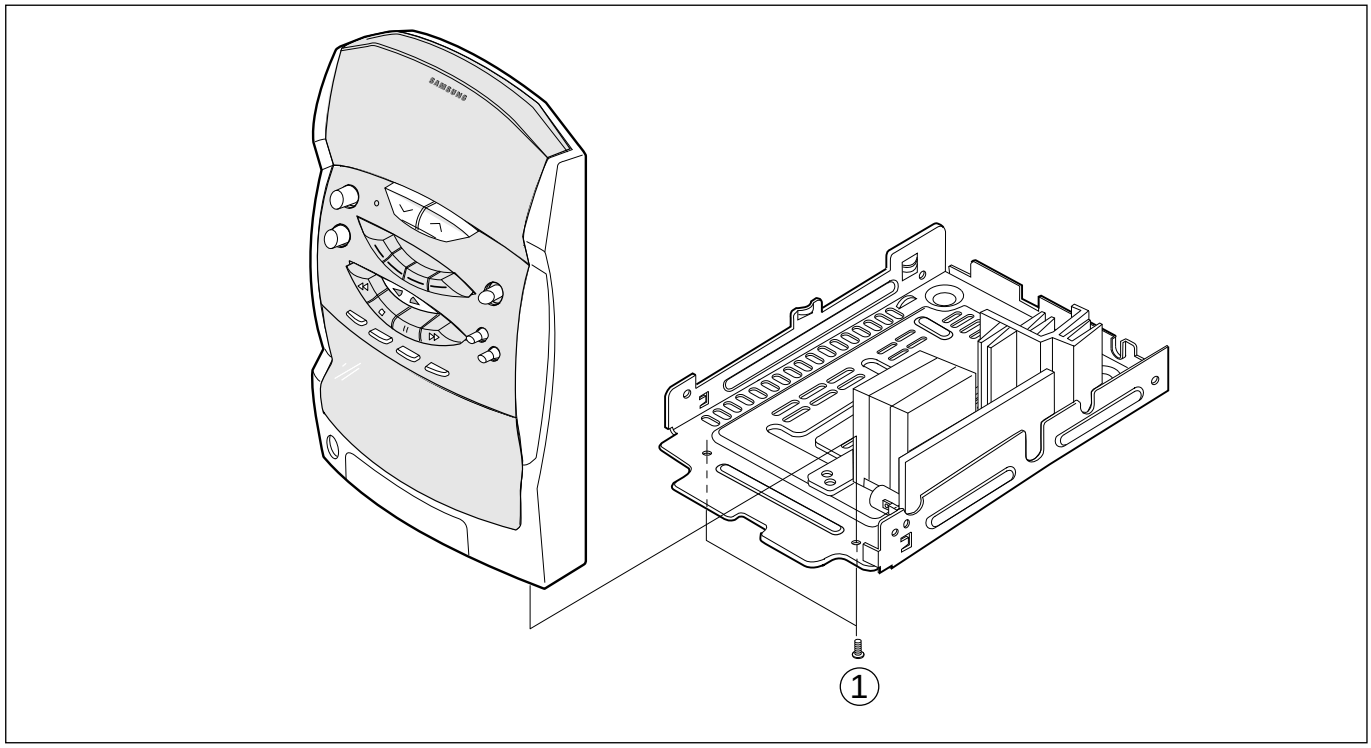


Figure 3-3

3-4 CD-Pack

1. Undo 4 screws of ① and then remove the CD-Pack downward.

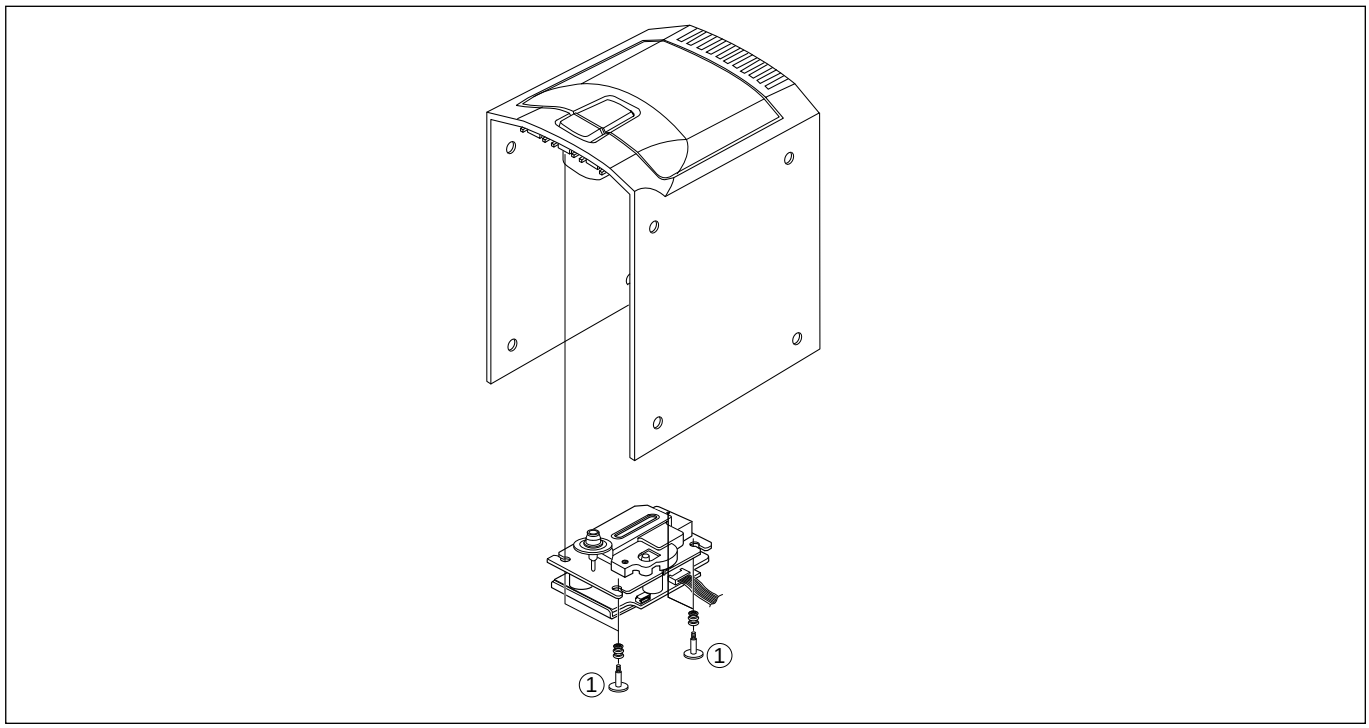


Figure 3-4

3-5 CD Deck

1. Remove the Shaft ① .
2. Lift the P/U ② .
   Note : Take extreme care not to touch the surface of lens.
3. Lift the Center-knob ③.
4. Remove the Center-ring ④ .
5. Remove the Spring-T/Table ⑤ .
6. Remove the Turn-Table (M) ⑥ .
7. Remove 2 screw ⑦ and then remove the Spindle-Motor ⑧ .
8. Remove the Cover-Gear ⑨ by pushing the hook.
9. Remove the Gear(c) ⑩ by pushing the hook.
10. Lift the Gear(b) ⑪ .
11. Remove the Gear(a) ⑫ .
12. Remove 2 screws ⑬ and then remove the Feed-Motor ⑭ .
13. Remove the Chassis-Deck(M) ⑮.

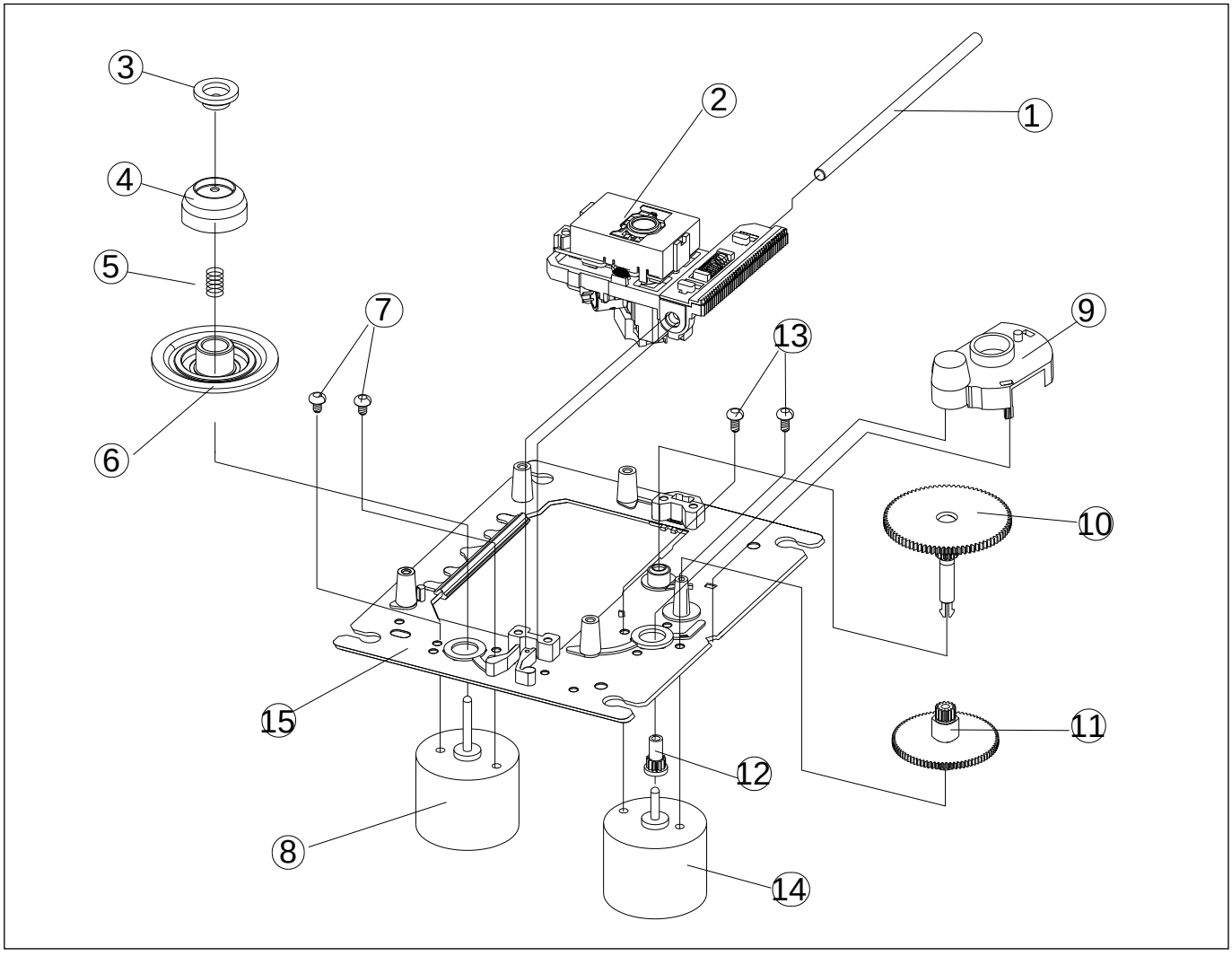


Figure 3-5

4-1 Tuner

FM T.H.D Adjustment	
SSG FREQ.	98MHz
Adjustment point (IFT2))	FM DETECTOR COIL
Minumum output(Figure 4-1)	

FM Stereo Adjustment	
SSG FREQ.	98MHz
Adjustment point (ISVR1)	SEMI-VR(5KB)
"TUNED" is shown on LCD (Figure 4-2)	

AM I.F Adjustment	
SSG FREQ.	450KHz
SET FREQ.	522KHz
Adjustment point (IFT1)	AM IF COIL
"TUNED" is shown on LCD(Figure 4-3)	

AM Search Level Adjustment	
SSG FREQ.	999KHz
Adjustment point (ISVR2)	SEMI-VR(20KB)
"TUNED" is shown on LCD(Figure 4-3)	

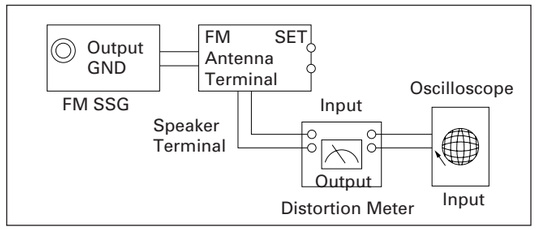


Figure 4-1 IF CENTER and T.H.D Adjustment

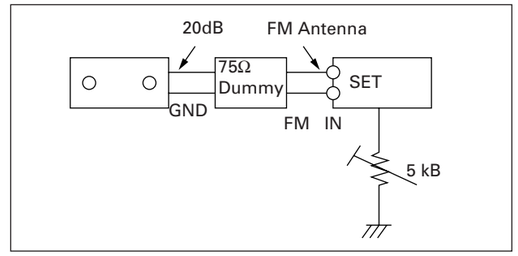


Figure 4-2 FM Stereo Separation Adjustment

*** Remark ***
After adjusting the AM, be sure to adjust the FM.

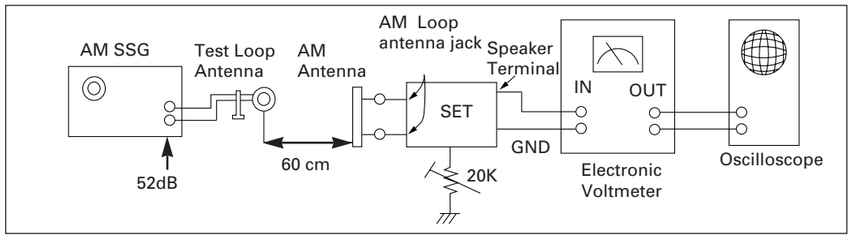


Figure 4-3 AM Auto Search Level Adjustment

4-2 Cassette Deck

4-2-1 To Adjust Tape Speed

NOTES

1. Measuring tape: i) MTT-111 (or equivalent)
   (Tapes recorded with 3KHz)
   ii) MTT-5512 (or equivalent)
2. Connect the set to the frequency counter as in Figure 4-4.

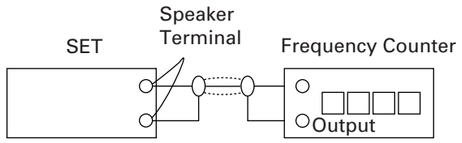


Figure 4-4

Step	Item	Pre-Setup Condition	Pre-Setup	To Adjust	Standard	Remark
1	NOR SPEED Control counter	Figure 4-4	1) Deck: MTT-111 2) Press PLAY SW button	Turn JVR51 to left and right.	3KHZ ±1%	

4-2-2 To Adjust Azimuth and Record BIAS

NOTES

1) Measuring tape :
   i) MTT-113CN (or equivalent 8 kHz AZIMUTH control).
2) The SET is connections as shown in Figure 4-6.

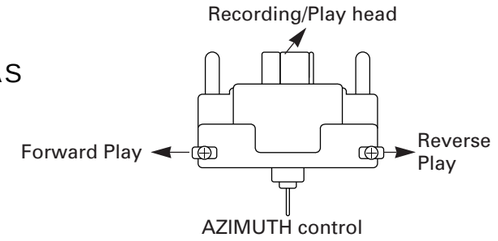


Figure 4-5

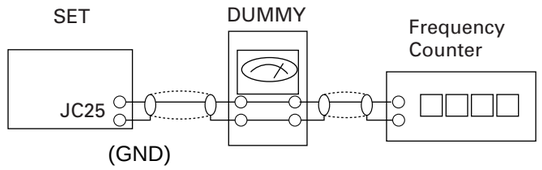


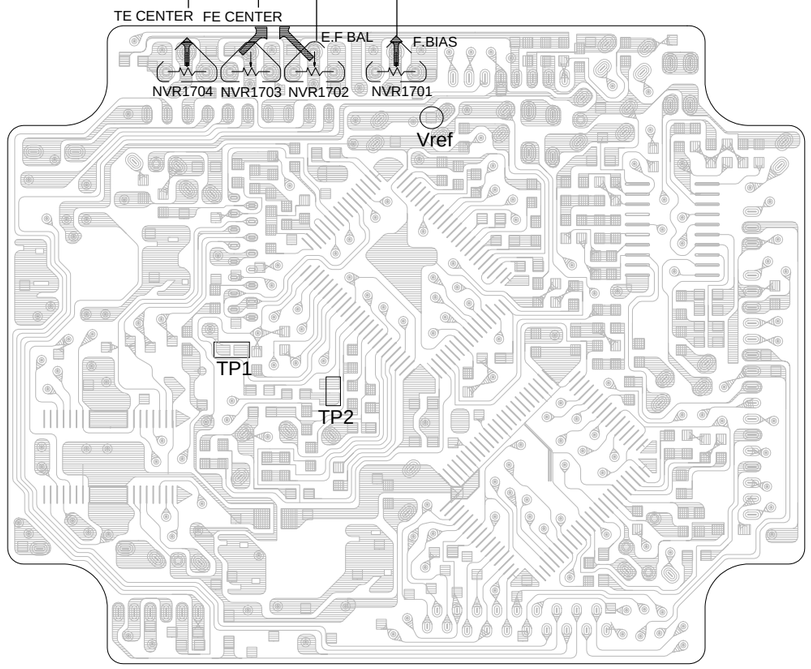
Figure 4-6

1 . Adjust 1-Deck Replay Level

Step	Item	Pre-Setup Condition	Pre-Setup	To Adjust	Standard	Remark
1	AZIMUTH	Figure 4-5	After putting MTT -113CN into Deck . 1) Press FWD PLAY button. 2) Press REV PLAY button.	1) Figure 4-5 2) Adjust the right control screw to playback Rev. Mode.	Max output and same phase (both channels).	After adjustment secure it with REGION LOCK.

2 . Adjust Record Bias Level

Step	Item	Pre-Setup Condition	Pre-Setup	To Adjust	Standard	Remark
1	BIAS	Figure 4-6	Insert MTT-5512 into Deck,then press REC button.	Turn BIAS oscillator frequency coil (JT1) to the right and left	85KHz ±5%	See the diagram for adjustment locations



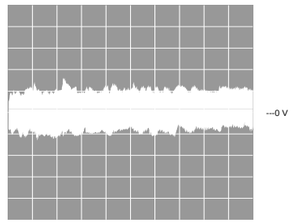
4-3-1 To Adjust FOCUS BIAS(STOP mode)

1. Set Volt/Div of the oscilloscope to DC 100mV.
2. Ground the scope input and set the waveform to 0V, DC range.
3. Connect the GND terminal of the oscilloscope to Vref, and (+) terminal to center of TP1.
4. Set NVR1701 to 0mV.

4-3-2 To Adjust Tracking Gain (PLAY mode)

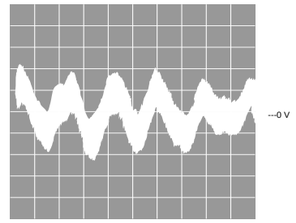
1. Connect the GND terminal of the oscilloscope to Vref and (+) terminal to TP2.
2. Load and play the disc
3. While the disc is running adjust the gain with NVR1704 as shown below.

Normal frequency



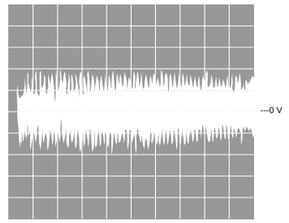
VOLT/DIV : 0.2V
TIME/DIV : 2mS

Low frequency



VOLT/DIV : 0.2V
TIME/DIV : 2mS

High frequency

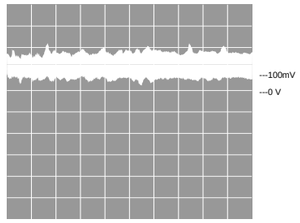


VOLT/DIV : 0.2V
TIME/DIV : 2mS

4-3-3 To Adjust Focus Gain (PLAY mode)

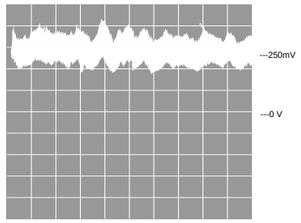
1. Connect the GND terminal of the oscilloscope to Vref and (+) terminal to TP1.
2. Load and play the disc
3. While the disc is running adjust the gain with NVR1703 as shown in the following figure.

Normal frequency



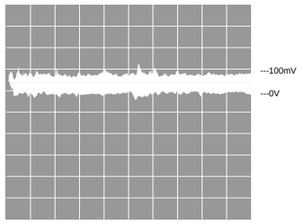
VOLT/DIV : 0.1V
TIME/DIV : 2mS

Low frequency



VOLT/DIV : 0.1V
TIME/DIV : 2mS

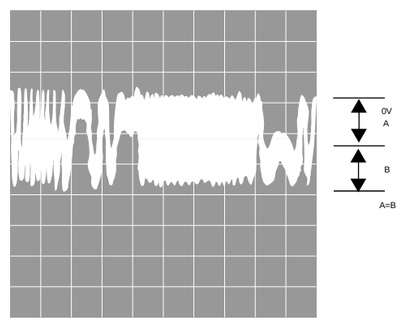
High frequency



VOLT/DIV : 0.1V
TIME/DIV : 2mS

4-3-4 To Adjust E/F Balance (PLAY mode)

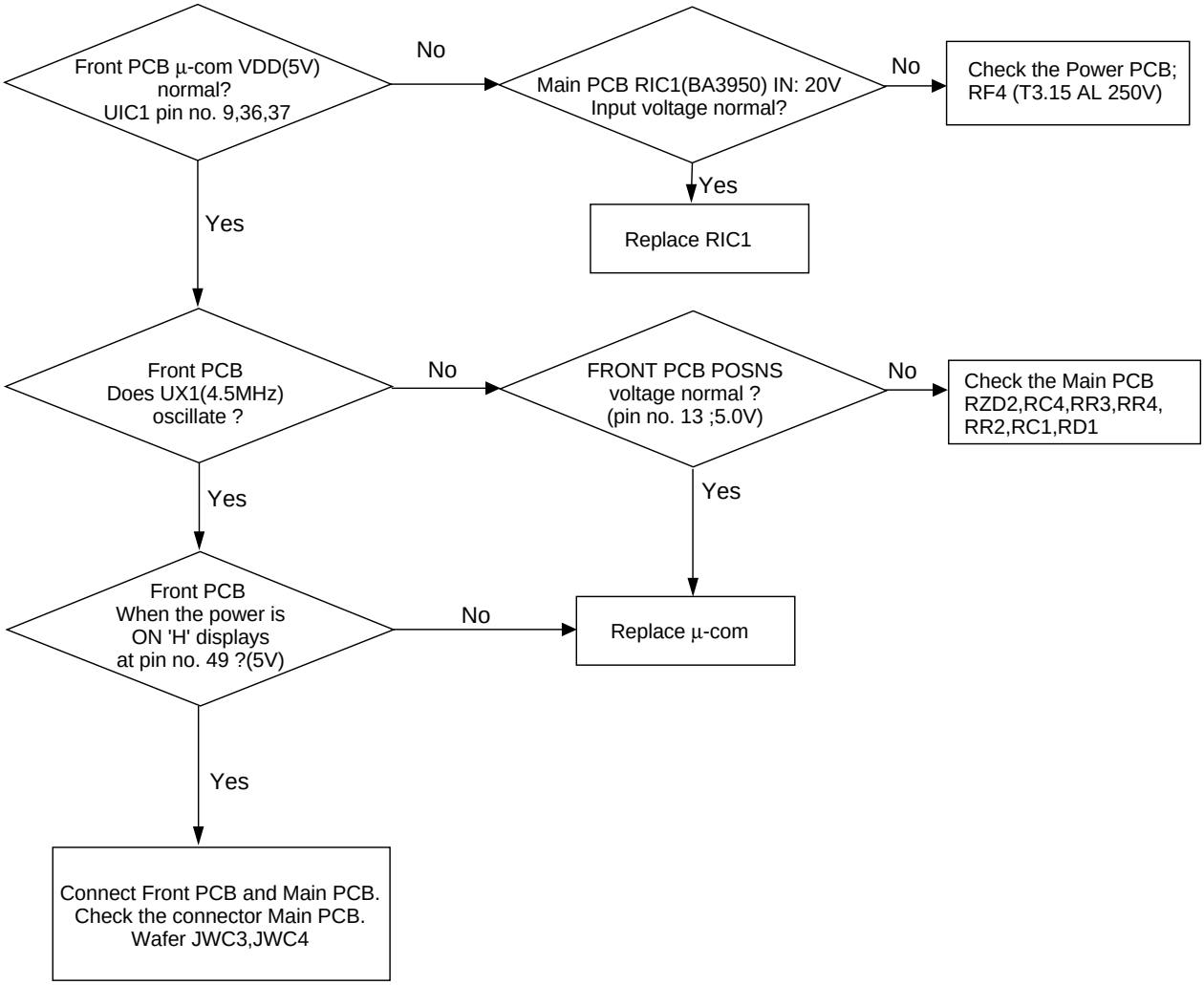
1. Set TIME/DIV of the oscilloscope to 2mS.
2. Set Volt/DIV of the oscilloscope to 0.5V.
3. Ground the scope input and set to DC and then set the DC range.
4. Connect the GND terminal of the oscilloscope to Vref and (+) terminal to center to TP2.
5. Load and play the disc.
6. Turn NVR1704 counterclockwise to the minimum value.
7. Raise NVR1702 and adjust the waveform so that its middle comes to GND of the oscilloscope (or until the upper half of waveform becomes symmetrical to the bottom half, A=B)
8. Adjust NVR1704 (arrow) for normal sound.



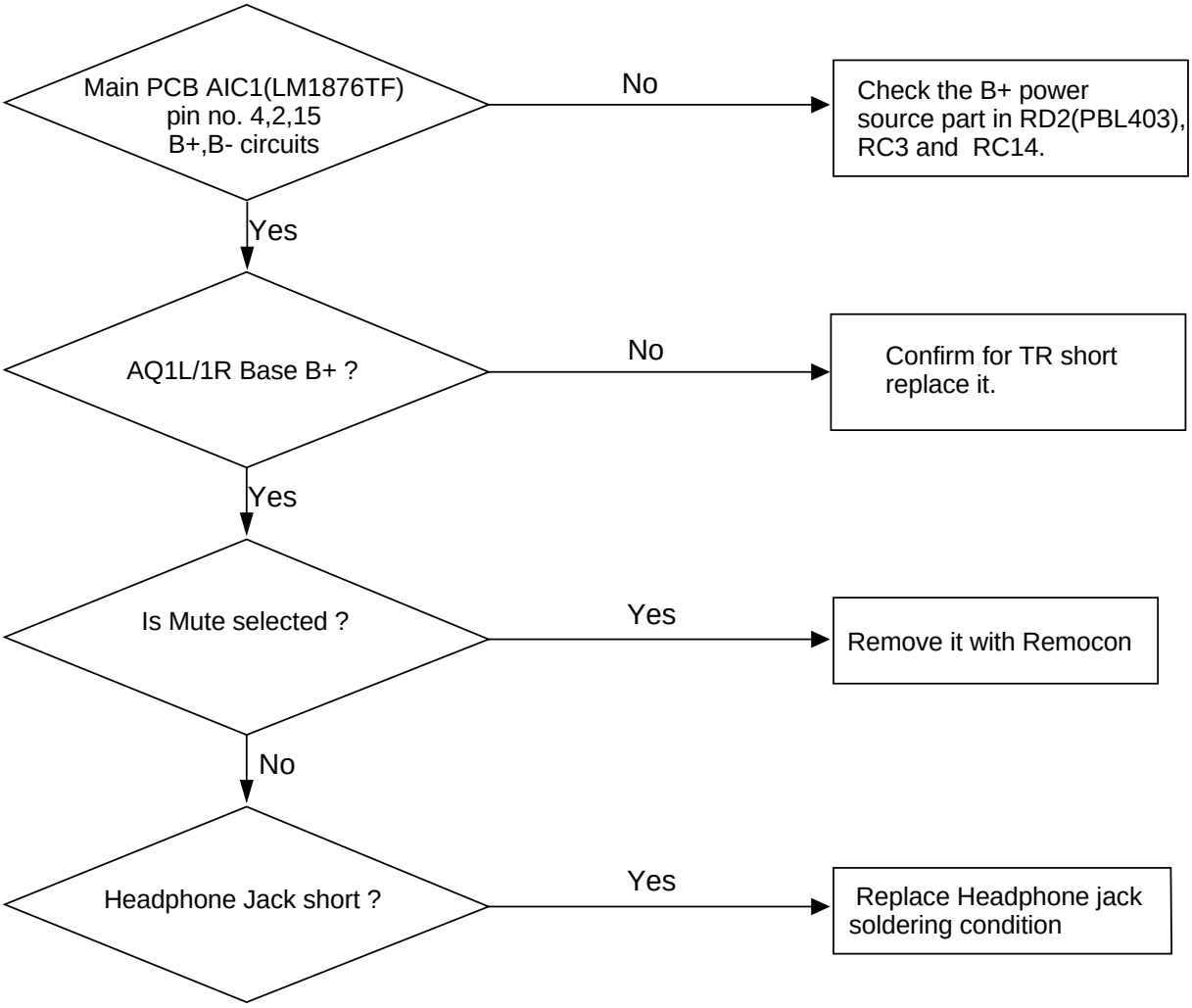
6. Troubleshooting

6-1 Main

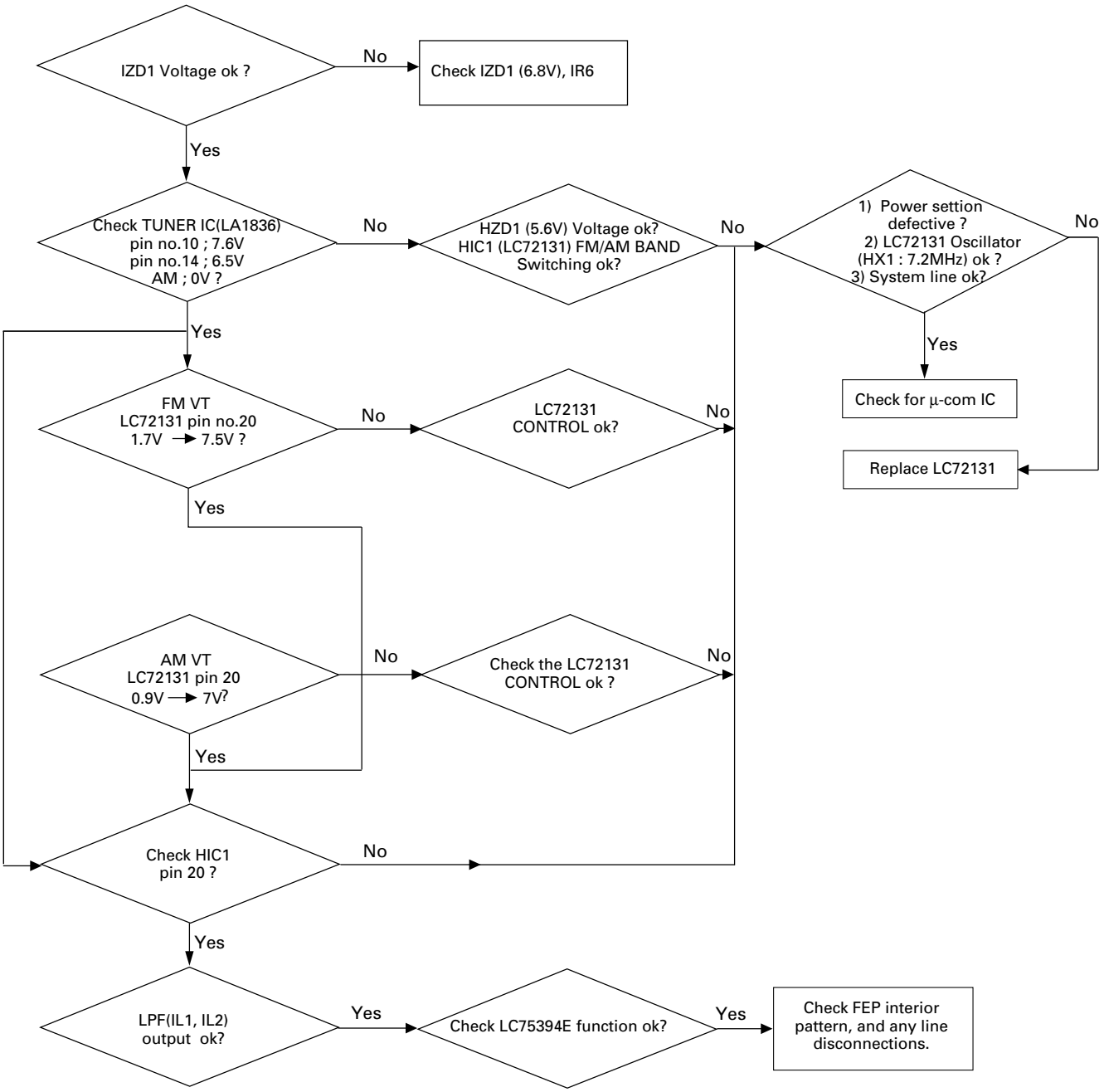
6-1-1 Power Malfunction


Front PCB µ-com VDD(5V) normal? UIC1 pin no. 9,36,37
No
Main PCB RIC1(BA3950) IN: 20V Input voltage normal?
No
Check the Power PCB; RF4 (T3.15 AL 250V)
Yes
Replace RIC1
Yes
Front PCB Does UX1(4.5MHz) oscillate ?
No
FRONT PCB POSNS voltage normal ? (pin no. 13 ;5.0V)
No
Check the Main PCB RZD2,RC4,RR3,RR4, RR2,RC1,RD1
Yes
Yes
Front PCB When the power is ON 'H' displays at pin no. 49 ?(5V)
No
Replace µ-com
Yes
Connect Front PCB and Main PCB. Check the connector Main PCB. Wafer JWC3,JWC4

6-1-2 No Output



6-1-3 Tuner Malfunction (FM/AM)

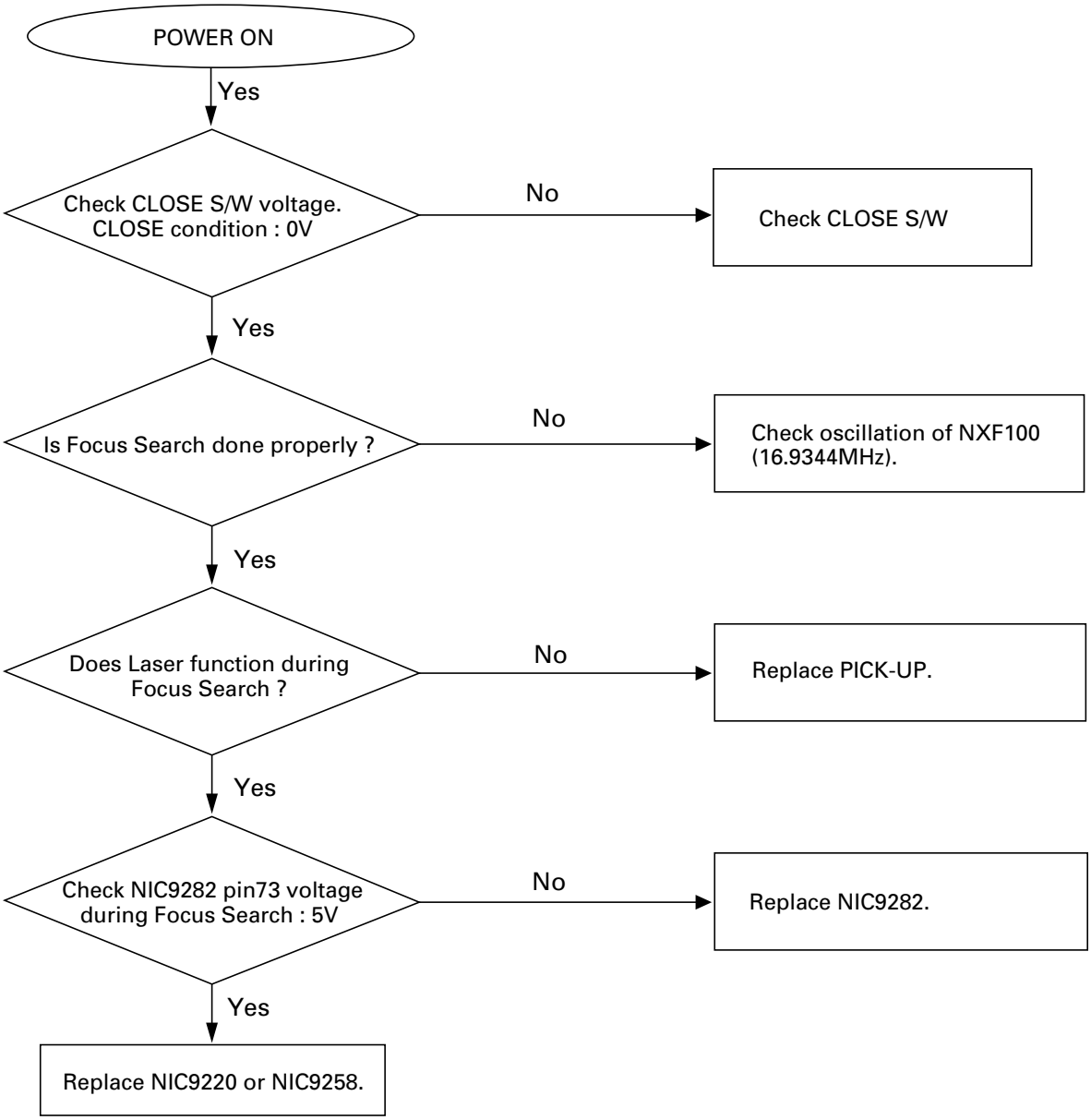


6-2 Cassette Deck

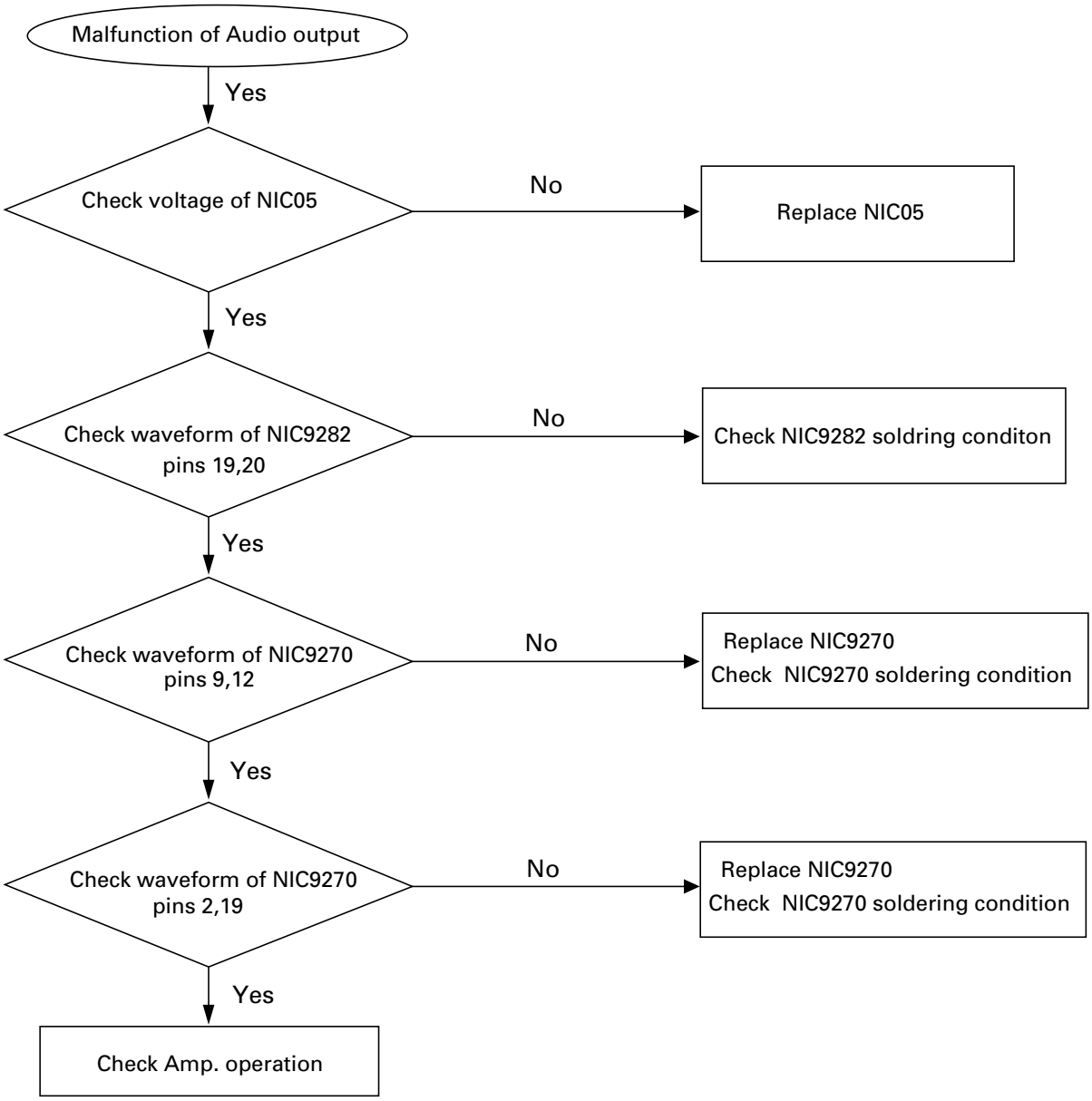
Block	Main Function	Check Point
TAPE IC JIC1 (KA22291)	Convert of P/B & R/P SIGNAL & DECK OUTPUT OF IC	Check for voltage at Pin5 1 P/B Deck : H 2 R/P Deck : L Check for pin2 of UIC2 when deck operate
AMPS IC JIC2 (LA2010)	AMPS	Check for voltage at pin 6 When between songs : High (Normal) When playing song : Low (Normal)
BIAS OSC	Oscillate RECORD BIAS (85KHZ)	Osc Frequency : 85KHz When inoperative : JQ5,JQ6 check

6-3 CD

6-3-1 Malfunction of DISC Revolution

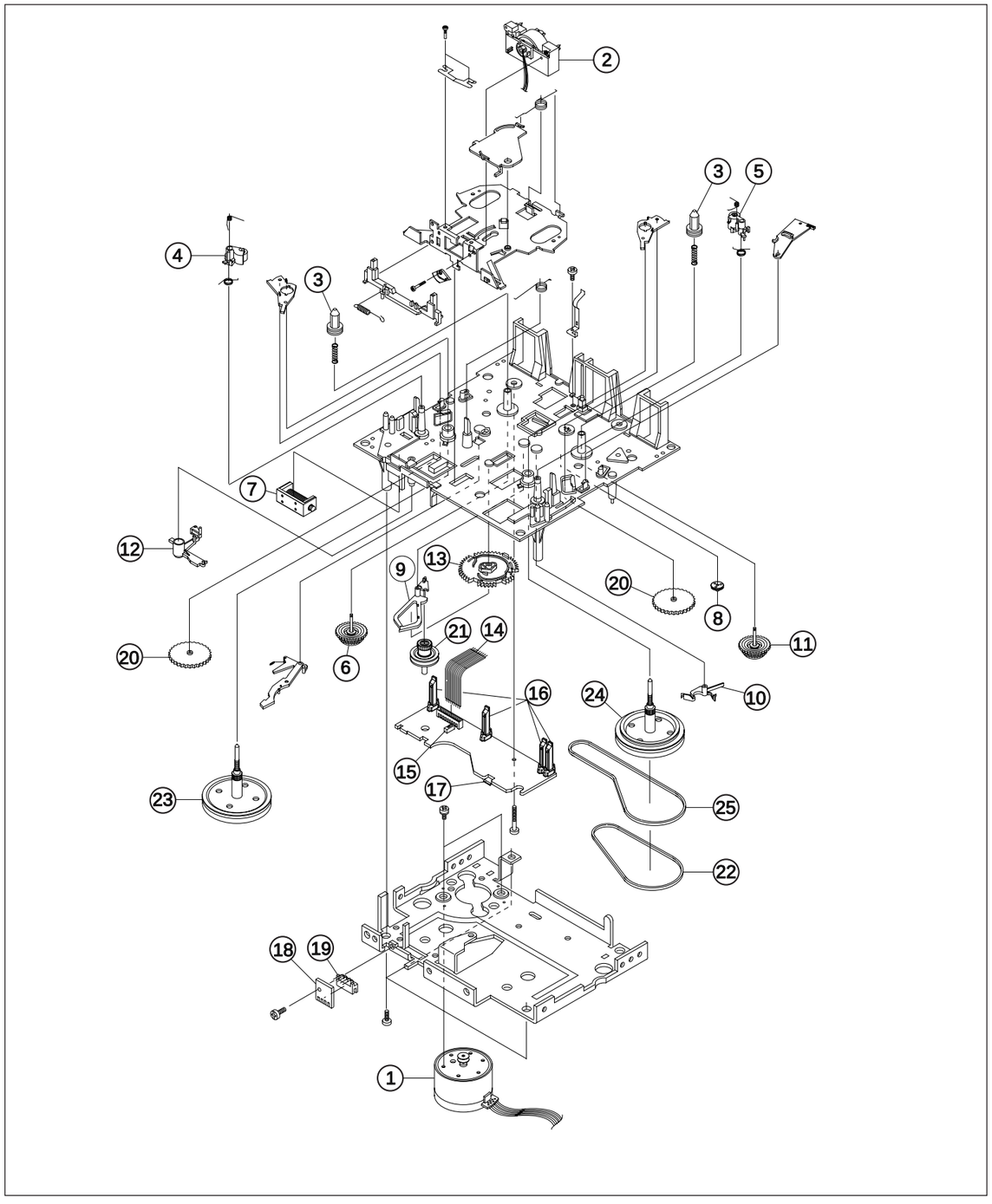


6-3-2 Malfunction of Audio output



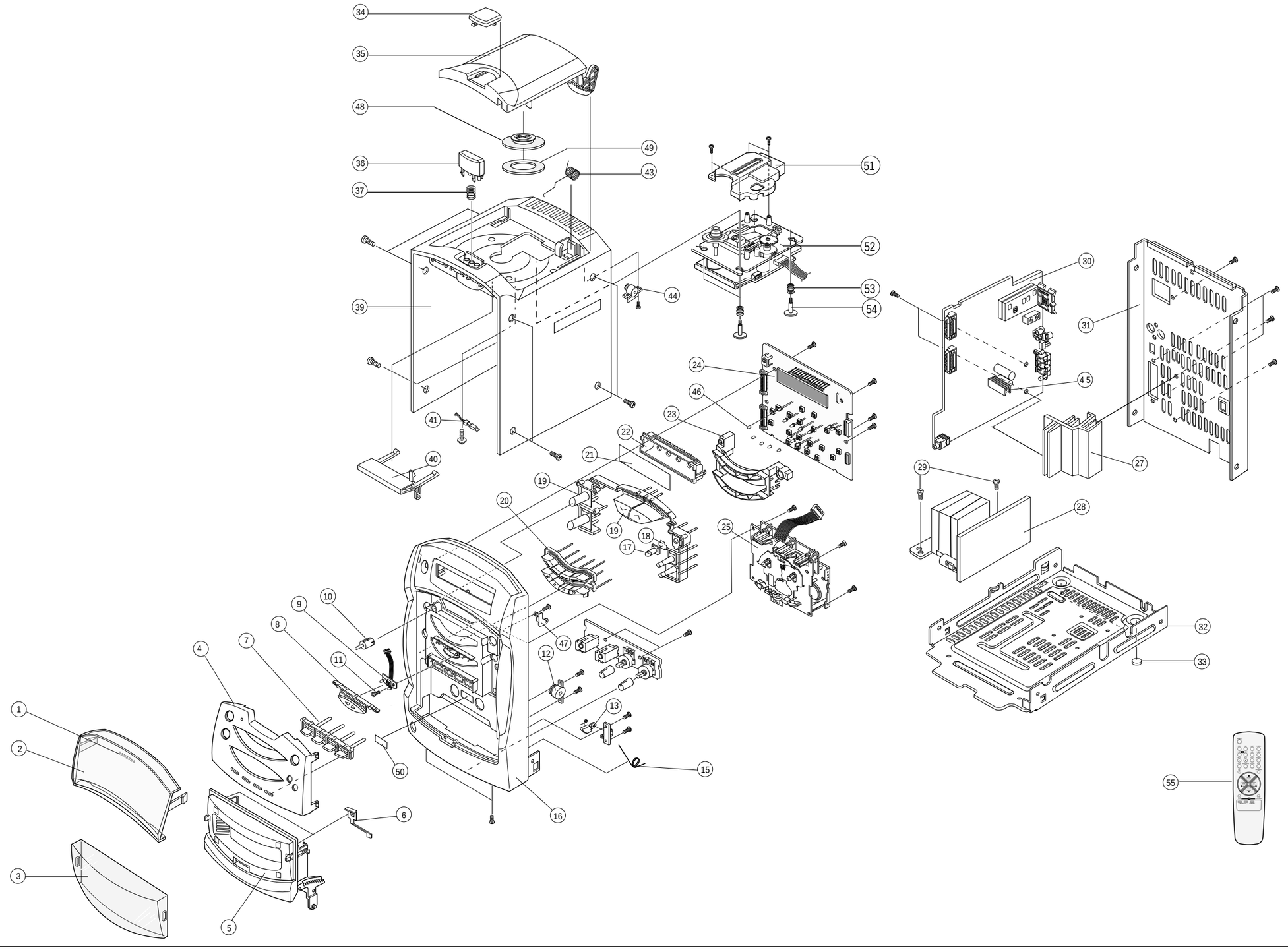
7. Exploded Views and Parts List

7-1 Cassette Deck View and Parts List



No.	New Part No.	Description	Specification	Old Part No.
	AH59-20002V	DECK CASSETTE	CRF 452	17159-0038-00
1	AH81-10021W	MOTOR	SHW2L	10000-503-004
2	AH81-10022J	ASS'Y HOLDER HEAD	YK56RAB4N3	10000-524-023
3	AH81-10031U	CAP REEL	22-222-4041	10000-611-009
4	AH81-10031V	ASS'Y PINCH ARM L	22-093-4149	10000-611-010
5	AH81-10031W	ASS'Y PINCH AMR R	22-093-4150	10000-611-012
6	AH81-10031Z	ASS'SUB REEL L	22-093-3071	10000-611-017
7	AH81-10032A	SOLENOID	07-W021C	10000-611-018
8	AH81-10032B	GEAR FF	22-222-4048	10000-611-021
9	AH81-10032C	ASS'Y ARM FR	22-093-4061	10000-611-022
10	AH81-10032H	ARM BRAKE	22-239-3028	10000-611-028
11	AH81-10032J	ASS'Y SUB REEL R	22-093-4151	10000-611-029
12	AH81-10032K	ARM TRIGER	22-268-3008	10000-611-030
13	AH81-10032L	GEAR-CAM	22-221-2090	10000-611-031
14	AH81-10032N	WIRE(13P)	22-072-4080	10000-611-035
15	AH81-10032Y	SWITCH-MODE	04-SW150	10000-611-051
16	AH81-10032Q	SWITCH LEAF	04-MT510041MVJ1	10000-611-039
17	AH81-10032R	HALL IC	00-LB9051A	10000-611-040
18	AH81-10032T	P.C.BOARD	22-070-4046	10000-611-046
19	AH81-10032U	HOUSING	00-S5BEH	10000-611-047
20	AH81-10033E	GEAR-PLAY	22-222-4282	10000-611-057
21	AH81-10033H	ASSY PULLEY FR	CRF452 22-093-3918	10000-611-063
22	AH81-10033J	BELT FR	CRF452 02-083-4127	10000-611-064
23	AH81-10033K	ASS'Y FLYWHEEL L	CRF452 22-220-3738	10000-611-065
24	AH81-10033L	ASS'Y FLYWHEEL R	CRF452 22-093-3917	10000-611-066
25	AH81-10033M	BELT MAIN	CRF452 02-084-4128	10000-611-067

7-2 Main Exploded View and Parts List



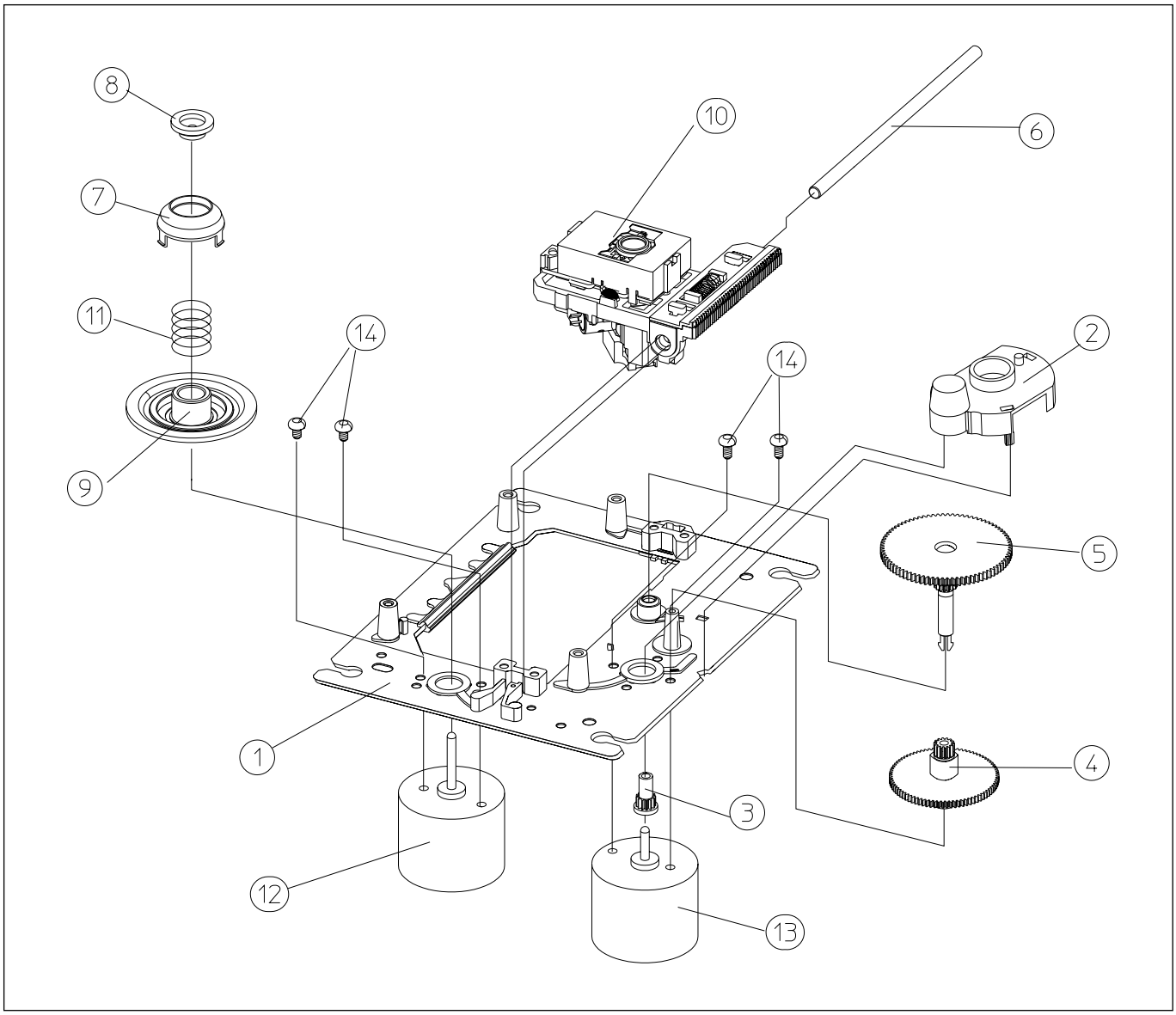
7-2-1 Main Parts List

No.	New Code No.	Description	Specification	Old Code No.
1	AH64-70031A	BADGE-BRAND	-,AL,-,L28	
2	AH64-40383A	WINDOW-LCD	-,ACRYL,94HB,T2.5,SMOKE	
3	AH64-40384A	WINDOW-CASSETTE	-,ACRYL,94HB,T2.5,SMOKE	
4	AH63-30198A	COVER-FRONT	-,ABS,94HB,T3.0,L120	
5	AH64-50316A	DOOR-CASSETTE	-,ABS,94HB,T3.0,L120	
6	AH61-60192A	SPRING-TAPE	,SUS,T0.35	16674-518-510
7	AH64-10085A	KNOB-FUCTION "C"	ABS,94HB,BLK	14083-0001-00
8	AH64-11088A	KNOB-PLAY	-,ABS,94HB,CLEAR	
10	AH67-10129A	LENS-POWER	-,-,ACRYL,T2.0,-,	
12	AH61-80030A	DAMPER-ASS'Y	-,POM,M0.8,G130,BLK	
13	AH95-50001A	ASS'Y LATCH	MAX-555,MOLD	12689-0009-00
15	AH61-60314A	SPRING-CASSETTE	-,ES,SUS,PI1.0,OD1.0	
16	AH64-30372C	CABINET-FRONT	-,MIPS,94HB,T3.0,L162	
17	AH64-11088A	KNOB-SBS	-,ACRYL,94HB,CLEAR	
18	AH67-40026A	FILTER-SBS	-,PC,T0.2	
19	AH64-10082A	KNOB FUNCTION "A"	ABS 94HB,BLK	14082-0849-00
20	AH64-10083A	KNOB FUNCTION "B"	ABS 94HB,BLK	14082-0851-00
21	AH67-40025A	FILTER-LCD	-,PC,T0.5	
22	AH61-20397A	HOLDER-LCD	-,ABS,94HB,WHT	
23	AH61-20396A	HOLDER-LED	-,ABS,94HB,BLK	
25	AH59-20002V	DECK-CASSETTE	CRF452	17159-0038-00
27	AH62-30111A	HEAT SINK	-,AL,V0	
31	AH64-30374A	CABINET-REAR	-,SECC,-,T0.8	
32	AH64-30375A	CASE-BOTTOM	-,SECC,-,T1.0	
33	AH73-10009A	RUBBER-FOOT	URETAN T1.5 PI8	13394-0009-00
34	AH64-40385A	WINDOW-CD, DOOR	-,ACRYL,94HB,T2.5	
35	AH64-50317A	DOOR-CD	-,ABS, 94HB,T3.0	
36	AH64-11100A	KNOB-CD,EJECT	-,ABS,94HB,T3.0	
37	AH61-60313A	SPRING-CD,EJECT	-,CS,SUS,PI0.7 OD9.4	
39	AH64-30373A	CABINET-TOP	-,MIPS,94HB,T3.0	
40	AH66-30085A	EJECT-LEVER	ACETAL BLK	
43	AH61-60312A	SPRING-CD,DOOR	-,ES,SUS,PI1.2,OD1.2	15124-506-011
44	AH61-80012B	DAMPER-ASS'Y	POM,M0.8,WHT	15684-507-510
45	AH62-30061A	HEAT SINK-S	AL,EXTR,WHT,40H	13394-0007-00
46	AH73-10007A	RUBBER-CAP	SILICON,-	
47	AH61-10675A	BRACKET-MOUNT	-,SUS,-,T1.0	
48	16603-511-840	CHUCK-PLATE	ABS +GF BLK	
49	AH63-70025B	SHEET-CHUCK	-,T/PAPER,T0.07,L20,W10	
50	AH68-50262B	LABER-REFLECT	T/PAPER	
51	AH61-20258C	CAP-PICK UP	ABS,-,BLK	
52	G3A8-1/16/C	ASSY CD-PACK	G3A8 TOP CD MM16/MM26	
53	AH73-10012A	RUBBER-CD	SI RUBBER,-,CMS-M5M6C	
54	AH61-50182A	SHIFT-CD	FE FZW,D2.6,L11.5,-,-	
55	AH59-10082A	REMOCON-ASS'Y	UPD78P063,27,MM-26	

7-3 CD DECK ASS'Y Parts List

No.	New Code No.	Description	Specification	Old Code No.
	CMSP30AM6	DECK -CD	BASIC	
1	AH61-10022B	CHASSIS-DECK(M)	CMSP30 POM M90-44	12001-0052-02
2	AH63-30048A	COVER-GEAR	CMS-V30 BLK ABS	13313-0057-00
3	AH66-20016A	GEAR(A)	CMS-V30 M0.3 Z13 SP POM	11474-0017-00
4	AH66-20017A	GEAR(B)	CMS-V30 M0.3 Z13 SP POM	11474-0018-00
5	AH66-20018A	GEAR(C)	CMS-V30 M0.3 Z16/Z90 SP POM	11474-0019-00
6	AH71-50036A	SHAFT-PU	CMS-V30 D3 L79 SUS420J2	11404-0041-00
7	15253-503-011	CENTER-RING	ABS+GS 20% CMS-V10N	15253-503-011
8	AH64-10648A	CENTER-KNOB	ABS 94HB	12224-0017-00
9	AH66-90029A	TURN-TABLE(M)	-,-,-, CMS-V30	16034-504-510
10	AJ30-20001B	PICK-UP CDP	P/U SOH-A1 ROW V-P/J	12224-0017-00
11	AH61-60055A	SPRING-T/TABLE	CS STS-W PI0.4 D5.7 L9.3 CMS-V10N	*SOH-AP
12	AH31-10009A	MOTOR-SPINDLE	RF-310T-11400 43L 25V 85mA	16829-0004-00
13	AH31-10002B	MOTOR-FEED	RF-310TA 30MM NDM4RA3ETL 11.0MM	14769-057-250
14	AH60-10014A	SCREW-PH(+M2*3)	+M2X3 FE FZY W700	17008-120-032

7-3-1 CD DECK Exploded View



8. Electrical Parts List

Loc No.	New Part No.	Description	Specification	Old Part No.
	AH90-10627D	ASSY-PCB POWER;MM26,SEG		
RC15,16	2201-000520	C-CERAMIC,DISC;4.7NF,+80-20%,400VAC		11469-501-070
RF4	3601-000255	FUSE-FERRULE;250V,3.15A,SLOW BLOW,G		A3065-0195
RF1	3601-000301	FUSE-FERRULE;250V,6.3A,TIME LAG,GLA		B3065-0168
RF3	3601-000318	FUSE-FERRULE;250V,800MA,TIME LAG,GL		14709-241-190
RF1,4	3602-000147	FUSE-CLIP;250V,7.5A,30MOHM		13164-101-913
RF3				
RJW2,3	3811-000389	WIRE-NO SHEATH CU;SPCW,300V,52.4MM,		
P/T	AH26-80140E	TRANS-POWER;EI66X45,115/230V,60/50H		
RL1,2	AH27-10001F	COIL-CHOKE;27UH,K,Q30,-,-,DR(6.5*7.		12429-010-330
POWER-CORD	AH39-10002L	POWER CORD;CP2,KLCE-2F,2.15M,5239,V		A6006-0187
	AH90-30489A	ASSY-COM PCB POWER;MM26,-		
RJ1	3711-000190	CONNECTOR-HEADER;1WALL,2P,1R,7.92MM		13349-156-020
VWC2	3711-001055	CONNECTOR-HEADER;BOX,6P,1R,2.5MM,ST		13349-512-565
	AH90-10628A	ASSY-PCB MAIN;MM26,-		
	AH90-10717B	ASSY-PCB MAIN;MAIN,L BAND		
BQ1,2,3,4	0501-000398	TR-SMALL SIGNAL;-,NPN,250MW,TO-92,T		12149-301-900
IR12	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X		11018-877-222
BR2,4,5,6	2007-000981	R-CHIP;5.6KOHM,5%,1/10W,DA,TP,2012		11119-101-562
JSCW	3408-000250	SWITCH-SLIDE;30V,300MA,SPDT,-		13519-930-220
ANT+OSC COIL	AH27-80060B	COIL-OSC;RBQ-07VB,393UH,MW/LW-RF		
	AH90-30487A	ASSY-COM PCB MAIN;MM26,-		
ID1,2,HD1,QD1,AUD1,2	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,5		
JD1R				
FD1,2,LD1,2,JD3L,3R,2L,				
FD2R,2L,JD4,5,6,AD1,6				
ID3,AD3,4,5,RD8	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-4		A4104-0053
RD1,JD51,52,53,RD3				
RD2	0402-000450	DIODE-BRIDGE;PBL403,200V,4.0A,DIP-4		12169-219-330
RD7	0402-000452	DIODE-BRIDGE;PBP203,200V,2.0A,DIP-4		12169-219-320
RZD1	0403-000379	DIODE-ZENER;UZP12B,12V,11.4-12.6V,1		12169-403-910
PZD1	0403-000393	DIODE-ZENER;UZP5.1B,5.1V,4.8-5.4V,1		12169-403-330
HZD1,RZD2,JZD1	0403-000394	DIODE-ZENER;UZP5.6B,5.6V,5.2-6.0V,1		12169-404-110
IZD1	0403-000396	DIODE-ZENER;UZP6.8B,6.8V,6.4-7.2V,1		12169-404-100
QZD1,RZD5	0403-000399	DIODE-ZENER;UZP9.1B,9.1V,8.5-9.6V,1		12169-403-340
AQ3	0501-000010	TR-SMALL SIGNAL;KSC1008-Y,NPN,80V,6		12149-301-050
JQ9	0501-000303	TR-SMALL SIGNAL;-,PNP,250MW,TO-92,-		12149-101-520
JQ5,6,RQ2	0501-000369	TR-SMALL SIGNAL;-,NPN,1W,TO-92L,-,1		12149-301-910
FQ2,IQ5,6	0501-000392	TR-SMALL SIGNAL;-,NPN,250MW,TO-92,-		12149-301-860
JQ3L,3R	0501-000394	TR-SMALL SIGNAL;-,NPN,250MW,TO-92,-		12149-301-840
JQ2L,2R,8,55	0501-000398	TR-SMALL SIGNAL;-,NPN,250MW,TO-92,T		12149-301-900
IQ2,3,4	0501-000398	TR-SMALL SIGNAL;-,NPN,250MW,TO-92,T		12149-301-900
AQ2,4,CQ3,JQ4,AUQ1L,				
AUQ1R,MQ1,2				
CQ1,2,AQ1L,1R	0501-000407	TR-SMALL SIGNAL;-,NPN,800MW,TO-92,-		12149-401-150

Loc No.	New Part No.	Description	Specification	Old Part No.
JQ3L,3R				
JQ51,52,IQ1	0501-000610	TR-SMALL SIGNAL;-,PNP,1W,TO-92L,TP,		
RQ8	0502-000148	TR-POWER;2SB1185,PNP,2W,TO-220FP,BK		B4052-0035
RQ3	0502-000424	TR-POWER;2SB1566-F,PNP,2W,TO-220FN,		B4052-0086
JQ53,54	0504-000118	TR-DIGITAL;-,NPN,300MW,22K-22K,TO-9		12159-301-780
JQ7	0504-000121	TR-DIGITAL;-,NPN,300MW,22K-47K,TO-9		12159-301-800
CQ4	0504-000145	TR-DIGITAL;-,PNP,300MW,22K-22KOHM,T		12159-301-330
JQ1L,1R	0505-000197	FET-SILICON;2SK373Y,N,-,-,-,400MW,T		B4054-0023
SIC2	1001-000111	IC-ANALOG SWITCH;GD4066B,BILATERAL		
FC4,HC8,IC9,10,AC15,13	11129-004-473	C-CHIP,CERAMIC;CC 2012 X7R 473K T		
CC2,FC1,2,7,HC1,IC3,9,10				
IC15,25,JC24,LC3				
LIC1,AIC2	1201-000163	IC-OP AMP;4560,SOP,8P,150MIL,DUAL,1		12119-401-300
JIC1	1201-000358	IC-PREAMP;22291,DIP,24P,-,DUAL,-,PL		A4012-0070
AIC1	1201-001059	IC-POWER AMP;1876,TO-220,15P,37.5MI		
RIC1	1203-000166	IC-POSI.ADJUST REG.;3950,SIP,12P,-,		B4008-1198
QIC1	1204-001031	IC-VOLUME CONTROL;LC75394E,QFP,64P,		
IR20,21,1	2001-000008	R-CARBON;15KOHM,5%,1/8W,AA,TP,1.8X3		11018-877-153
JR17L,17R				
JR29	2001-000028	R-CARBON(S);100OHM,5%,1/2W,AA,TP,2.		11018-377-101
IR3,6				
AR8L,8R	2001-000032	R-CARBON;180OHM,5%,1/4W,AA,TP,2.4X6		11018-277-181
IR9	2001-000042	R-CARBON;1KOHM,5%,1/4W,AA,TP,2.4X6.		11018-277-102
RR9,10	2001-000071	R-CARBON;22KOHM,5%,1/4W,AA,TP,2.4X6		11018-277-223
RR7	2001-000071	R-CARBON;22KOHM,5%,1/4W,AA,TP,2.4X6		11018-277-223
AR15	2001-000076	R-CARBON;47KOHM,5%,1/4W,AA,TP,2.4X6		11018-277-473
JR51,52	2001-000119	R-CARBON;680OHM,5%,1/4W,AA,TP,2.4X6		11018-277-681
JR56,58	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X		11018-877-104
JR23,6R,QR8	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3		11018-877-101
JR21,FR14	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3		11018-877-103
QR4R	2001-000319	R-CARBON;120KOHM,5%,1/8W,AA,TP,1.8X		11018-877-124
JR10R	2001-000331	R-CARBON;12KOHM,5%,1/8W,AA,TP,1.8X3		11018-877-123
AR13	2001-000354	R-CARBON;150KOHM,5%,1/4W,AA,TP,2.4X		11018-277-154
JR3L	2001-000397	R-CARBON;180KOHM,5%,1/8W,AA,TP,1.8X		11018-877-181
JR26	2001-000411	R-CARBON;18KOHM,5%,1/8W,AA,TP,1.8X3		11018-877-183
CR4,5,JR12L,12R	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.		11018-877-102
JR2L,2R				
AR4L,4R				
JR7L,7R,16L,AR12	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X		11018-877-222
HR7,8,9,10,QR5,6,7				
JR34	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3		11018-877-223
JR24	2001-000773	R-CARBON;470KOHM,5%,1/8W,AA,TP,1.8X		11018-877-474
JR37,IR13,FR12	2001-000793	R-CARBON;47OHM,5%,1/8W,AA,TP,1.8X3.		11018-877-470
AR3R,JR16L	2001-000869	R-CARBON;56OHM,5%,1/8W,AA,TP,1.8X3.		11018-877-560
RR19	2001-001138	R-CARBON(S);390OHM,5%,1/2W,AA,TP,2.		11018-377-391
AR7L,7R	2001-001146	R-CARBON(S);4.7OHM,5%,1/2W,AA,TP,2.		11018-377-479
RR8	2003-000455	R-METAL OXIDE(S);100OHM,5%,2W,AA,TP		11048-577-101
RR18	2003-000690	R-METAL OXIDE(S);4.7OHM,5%,2W,AA,TP		11048-577-479
RR20,JR60	2003-000710	R-METAL OXIDE(S);47OHM,5%,2W,AA,TP,		11048-577-470
QJW50,RJW50	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012		11119-101-000

Loc No.	New Part No.	Description	Specification	Old Part No.
IJW48,49,50,JJW23,24,25,28,29 BJW1,2,3,FJW1,IJW15,16,20 JJW30,31,35				
AR5L,5R,JR16R	2007-000030	R-CHIP;560OHM,5%,1/10W,DA,TP,2012		11119-101-561
JR9L,9R	2007-000267	R-CHIP;1.8KOHM,5%,1/10W,DA,TP,2012		11119-101-182
AR30,IR50	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012		11119-101-104
IR4,JR1L,1R,13L,13R,36 JR53,54,LR8,11,QR10				
FR3,1	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012		11119-101-101
FR13	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012		11119-101-103
FR11	2007-000308	R-CHIP;10OHM,5%,1/10W,DA,TP,2012		11119-101-100
QR9L,9R	2007-000338	R-CHIP;120KOHM,5%,1/10W,DA,TP,2012		11119-101-124
JR10L	2007-000355	R-CHIP;12KOHM,5%,1/10W,DA,TP,2012		11119-101-123
AR11,AUR1L,1R				
JR3R,JR57	2007-000444	R-CHIP;180KOHM,5%,1/10W,DA,TP,2012		11119-101-184
JR14L,14R,25	2007-000457	R-CHIP;18KOHM,5%,1/10W,DA,TP,2012		11119-101-183
SR50,51				
SR50,51				
FR4,HR17,AR1L,1R, AR17,CR2,JR11L,11R	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012		11119-101-102
JR11L,11R				
FR7,AR18,AUR4L,4R,R4, IR14,15	2007-000493	R-CHIP;2.2KOHM,5%,1/10W,DA,TP,2012		11119-101-222
QR1L,1R,2L,2R,RR3	2007-000586	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012		11119-101-223
FR5	2007-000593	R-CHIP;22OHM,5%,1/10W,DA,TP,2012		11119-101-220
FR9,RR2	2007-000686	R-CHIP;3.3KOHM,5%,1/10W,DA,TP,2012		11119-101-332
FR2,LR3	2007-000766	R-CHIP;330OHM,5%,1/10W,DA,TP,2012		11119-101-331
AR10L,10R	2007-000774	R-CHIP;33KOHM,5%,1/10W,DA,TP,2012		11119-101-333
AUR2L,2R,HR5,JR55, RR4	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012		11119-101-472
JR31	2007-000887	R-CHIP;4.9OHM,5%,1/10W,DA,TP,2012		11119-101-479
LR1,2	2007-000941	R-CHIP;47KOHM,5%,1/10W,DA,TP,2012		11119-101-473
JR6L	2007-000947	R-CHIP;47OHM,5%,1/10W,DA,TP,2012		11119-101-470
AR3L,JR18L,18R,19	2007-001039	R-CHIP;56KOHM,5%,1/10W,DA,TP,2012		11119-101-563
JR4L,4R	2007-001071	R-CHIP;6.8KOHM,5%,1/10W,DA,TP,2012		11119-101-682
JR5L,5R	2007-001177	R-CHIP;8.2KOHM,5%,1/10W,DA,TP,2012		11119-101-822
LR4	2007-001208	R-CHIP;82KOHM,5%,1/10W,DA,TP,2012		11119-101-823
JVR51	2103-000341	VR-SEMI;2KOHM,30%,1/10W,TOP		11249-102-104
IVR2	2103-000461	VR-SEMI;50KOHM,30%,1/10W,TOP		11249-102-064
IVR1	2103-000492	VR-SEMI;5KOHM,30%,1/10W,TOP		11249-102-024
UC11,16	2201-000273	C-CERAMIC,DISC;18PF,5%,50V,NPO,5.0*		11407-057-180
UC14,15	2201-000354	C-CERAMIC,DISC;20PF,5%,50V,NPO,5.0*		11407-057-200
JC34	2201-000470	C-CERAMIC,DISC;330PF,10%,50V,SL,8X4		11407-018-331
RC5,17,IC8	2201-000565	C-CERAMIC,DISC;47NF,20%,50V,Y5V,12.		11417-344-473
UC9,2,IC1	2202-000781	C-CERAMIC,MLC-AXIAL;100PF,10%,50V,Y		11449-518-101
JC35,HC7	2202-000796	C-CERAMIC,MLC-AXIAL;1NF,10%,50V,Y5P		11449-518-102
JC17L,17R,AC4L	2202-000806	C-CERAMIC,MLC-AXIAL;220PF,10%,50V,Y		11449-518-221
UC4	2202-000807	C-CERAMIC,MLC-AXIAL;22NF,+80-20%,25		11448-010-223
JC15L,15R	2202-000847	C-CERAMIC,MLC-AXIAL;1,8NF,0.3,50V,Y		
HC5,IC12	2202-000854	C-CERAMIC,MLC-AXIAL;47NF,0.3,50V,Y5		

Loc No.	New Part No.	Description	Specification	Old Part No.
RC13	2401-001942	C-AL;3300UF,20%,35V,GP,18X35.5MM,7.		11607-105-332
IC27,28	2401-001954	C-AL;4.7UF,20%,50V,GP,5X11MM,5,BK		
AUC2L,2R,AC1		1		
HC4	2401-001955	C-AL;4.7UF,20%,50V,LL,5X11MM,5MM,TP		11608-306-472
IC5	2401-001968	C-AL;470NF,20%,50V,GP,5X11MM,5,TP		
JC3L,3R,11L,11R,33,58	2401-001975	C-AL;47UF,20%,16V,GP,5X11MM,5,TP		
JC20,22,27,31,IC17	2401-001975	C-AL;47UF,20%,16V,GP,5X11MM,5,TP		
AC6L,6R				
UC24,JC56,57,AC21	2401-002180	C-AL;2.2UF,0.2,50V,GP,5X11,5MM,TP		
QC1L,1R,2L,2R,3L,3R				
HX1	2801-000734	CRYSTAL-UNIT;7.2MHZ,50PPM,28-AAM,12		14539-501-140
ICF4	2802-000215	RESONATOR-CERAMIC;19KHZ,+-38HZ,-,7.		14539-504-100
FCF1,ICF3	2903-000105	FILTER-CERAMIC;BP,10.7MHZ+-25KHZ		14529-301-753
ICF2	2903-000148	FILTER-CERAMIC;BP,450KHZ+-1KHZ		A1243-0049
JWC2	3708-000447	CONNECTOR-FPC/FC/PIC;13P,1.5MM,STRA		B6010-0399
ICW1	3711-000820	CONNECTOR-HEADER;BOX,2P,1R,2.5MM,ST		13349-512-561
JCW3,4	3711-002580	CONNECTOR-HEADER;NOWALL,24P,1R,1.25		
AJ2	3716-000204	TERMINAL-BLOCK;NON SOLDER,4P,11MM,-		A3059-0017
AJ1	3722-000352	JACK-PHONE;11P,3.5MM,AG,BLK,-		B3040-0119
AUJ1	3722-000376	JACK-RCA;4P/2C,3.5MM,SN,BLK,#16~22		13339-544-040
JIC2	AH14-10002H	IC;LA2010,-,		
HIC1	AH14-10007G	IC;LC72131,DIP,STICK PLL		
IIC1	AH14-10007H	IC;LA1836,DIP,STICK IF+MPX		
IL1,2	AH26-10001A	TRANS-IF;FV-AD-BASE19K/38K,LOW PASS		12450-304-040
IFT1	AH26-10001E	TRANS-IF;KS940228-09,-,-,7.6X12.0,-		12619-030-005
JL1L,1R	AH26-10002Y	COIL-TRAP;FB875-85A,BIAS-TRAP,35DB,		12429-306-113
JT1	AH26-10003C	COIL-TRAP;PCHNS-5371EQJ,BIAS-TRAP,-		12619-577-771
IFT2	AH26-10020A	TRANS-DET;-,7KLL,DET,-,7.8MM,91PF,1		
RCW1	AH39-20009L	LEAD-CONNECTOR ASS'Y;5264,5395,6P,1		13078-476-115
ACW1	AH39-20022G	LEAD-CONNECTOR ASS'Y;51004,5295,8P,		16439-0204-00
PCB	AH41-10410A	PCB-MAIN;MM26,1L,FR-1,247X247X1.6T		
AIC1	AH62-30061A	HEAT SINK-S;AL,EXTR,WHT,40H,AV330R,		15684-507-510
RQ8	AH62-30111A	HEAT SINK;-,AL,V0,-,-,NTR,-,MM-26		

AH90-10697A ASSY-PCB SRS;MM-26,DOM

SZD1,2	0403-000399	DIODE-ZENER;UZP9.1B,9.1V,8.5-9.6V,1		12169-403-340
SQ2	0504-000146	TR-DIGITAL;-,PNP,300MW,47K-47K,TO-9		12159-301-760
SQ1,3	0504-000203	TR-DIGITAL;-,NPN,300MW,47K-47K,TO-9		
SIC1	1201-000463	IC-OP AMP;074,SOP,14P,196MIL,SINGLE		
SR17	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X		11018-877-104
SR6,13	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3		11018-877-101
SR26,20	2001-000319	R-CARBON;120KOHM,5%,1/8W,AA,TP,1.8X		11018-877-124
SR31L	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3		11018-877-221
SR35	2001-000591	R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X		11018-877-332
SR8,9	2001-000660	R-CARBON;33OHM,5%,1/8W,AA,TP,1.8X3.		11018-877-333
SR1	2001-000995	R-CARBON;820OHM,5%,1/8W,AA,TP,1.8X3		11018-877-821
SR21	2001-001000	R-CARBON;82KOHM,5%,1/8W,AA,TP,1.8X3		11018-877-823
SR19,28,7,12R	2007-000001	R-CHIP;68KOHM,5%,1/10W,DA,TP,2012		11119-101-683
SJW2,9,21,22,23,24,25,50,51	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012		11119-101-000
SR16	2007-000241	R-CHIP;1.5KOHM,5%,1/10W,DA,TP,2012		11119-101-152

Loc No.	New Part No.	Description	Specification	Old PartNo.
AC14L,14R,JC1L,1R,2L,2R, AC6L,6R,JC8,QC6L,6R, QC19L,19R	2203-000239	C-CERAMIC,CHIP;100PF,5%,50V,NPO,201		11129-009-101
IC18,JC9L,9R	2203-000260	C-CERAMIC,CHIP;10NF,10%,50V,X7R,201		11129-004-103
QC11L,11R	2203-000347	C-CERAMIC,CHIP;150NF,10%,50V,NPO,20		A1100-0988
QC15L,15R	2203-000374	C-CERAMIC,CHIP;15NF,10%,50V,X7R,201		11129-004-153
JC4L,4R	2203-000417	C-CERAMIC,CHIP;18NF,10%,50V,X7R,201		11129-004-183
HC2,3	2203-000429	C-CERAMIC,CHIP;18PF,5%,50V,NPO,2012		11129-008-180
CC1L,1R,HC9	2203-000444	C-CERAMIC,CHIP;1NF,10%,50V,X7R,2012		11129-004-102
QC14L,14R	2203-000495	C-CERAMIC,CHIP;2.2NF,10%,50V,X7R,20		11129-004-222
HC10FC5,JC32,51, QC10L,10R,17L,17R	2203-000609	C-CERAMIC,CHIP;22NF,10%,50V,X7R,201		11129-004-223
FC6	2203-000648	C-CERAMIC,CHIP;24PF,5%,50V,NPO,2012		11129-009-240
IC21,22	2203-000802	C-CERAMIC,CHIP;33NF,10%,50V,X7R,201		11129-001-333
AC8L,8R	2203-000818	C-CERAMIC,CHIP;33PF,5%,50V,NPO,2012		11129-008-330
JC52,53	2203-000891	C-CERAMIC,CHIP;4.7NF,10%,50V,X7R,20		11129-012-472
QC9L,9R	2203-000925	C-CERAMIC,CHIP;470NF,+80-20%,50V,Y5		11128-018-474
AC3L	2203-000953	C-CERAMIC,CHIP;470PF,5%,50V,NPO,201		11129-004-471
QC13L,13R	2203-001064	C-CERAMIC,CHIP;56NF,10%,50V,NPO,201		A1100-0987
IC29,3,QC12L,12R	2203-001105	C-CERAMIC,CHIP;6.8NF,10%,50V,X7R,20		11129-004-682
QC16L,16R	2203-001132	C-CERAMIC,CHIP;680PF,5%,50V,NPO,201		11129-009-681
AC9L,9R	2301-000375	C-FILM,PEF;100NF,5%,50V,11X12.5X6.5		11505-713-104
JC30	2301-000379	C-FILM,PEF;10NF,10%,50V,6X7X3.2MM,5		
JC26	2301-000390	C-FILM,PEF;15NF,10%,50V,6.5X9X3.5MM		
JC29	2301-000404	C-FILM,PEF;2.2NF,10%,50V,5.5X7X3.2M		
JC25	2301-000422	C-FILM,PEF;3.3NF,10%,50V,5.5X7X3MM,		
LC6	2401-000213	C-AL;100NF,20%,50V,GP,3*5,1MM,TP		11608-106-108
HC11	2401-000240	C-AL;100UF,20%,10V,GP,6*11MM,5MM,TP		11608-102-104
JC18,19,23,IC26 LC4,5,JC01, QC27,18L,18R,30,FC3 RC7,8,9	2401-000303	C-AL;100UF,20%,25V,GP,6.3*11,2.5MM,		11608-104-104
IC14,4,23,24,,3 QC20L,20R,RC4,IC2,JC16 RC6,LC1,AC30L,30R,HC50	2401-000419	C-AL;10UF,20%,16V,GP,5X11,5,-		
RC2	2401-000847	C-AL;220UF,20%,35V,GP,10X12MM,5MM,T		11608-105-221
JC18	2401-000907	C-AL;22UF,20%,16V,GP,5*11,2MM,		11608-103-223
RC1,LC7	2401-001019	C-AL;3.3UF,20%,50V,GP,4X7,1.5MM,		
JC10L,10R,12L,12R,55 IC13,JC21	2401-001022	C-AL;3.3UF,20%,50V,GP,5*11,2MM,		11608-106-332
QC7L,7R	2401-001465	C-AL;47UF,20%,10V,GP,5*11,2MM,		11608-102-473
AC12L,12R	2401-001538	C-AL;47UF,20%,25V,GP,6X11,2.5MM,-		
RC11	2401-001881	C-AL;1000UF,20%,10V,GP,10X12MM,5MM,		11608-102-102
HC50	2401-001893	C-AL;100UF,20%,16V,-,6.3X7MM,5,TP		
UC23,JC7L,7R IC6,7,20,AC7L,7R,5L,5R QC4L,4R,8L,8R,21L,21R, AC2L,2R	2401-001912	C-AL;1UF,20%,50V,GP,5X11MM,2MM,BK		
JC54	2401-001921	C-AL;220NF,20%,50V,GP,5X11MM,2MM,BK		
RC3,14	2401-001928	C-AL;2200UF,20%,35V,GP,16X31MM,7.5M		11607-105-222

Loc No.	New Code No.	Description Specification	Old Code No.
SR27,38	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012	11119-101-104
SR3	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	11119-101-103
SR11	2007-000409	R-CHIP;15KOHM,5%,1/10W,DA,TP,2012	11119-101-153
SR2,36	2007-000457	R-CHIP;18KOHM,5%,1/10W,DA,TP,2012	11119-101-183
SR31R	2007-000572	R-CHIP;220OHM,5%,1/10W,DA,TP,2012	11119-101-221
SR24,30	2007-000586	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012	11119-101-223
SR42	2007-000642	R-CHIP;270OHM,5%,1/10W,DA,TP,2012	11119-101-270
SR15	2007-000710	R-CHIP;3.9KOHM,5%,1/10W,DA,TP,2012	11119-101-392
SR10,5,14,12L,29	2007-000774	R-CHIP;33KOHM,5%,1/10W,DA,TP,2012	11119-101-333
SR32	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	11119-101-472
SR4,34	2007-000941	R-CHIP;47KOHM,5%,1/10W,DA,TP,2012	11119-101-473
SR37	2007-000981	R-CHIP;5.6KOHM,5%,1/10W,DA,TP,2012	11119-101-562
SR39,40	2007-001039	R-CHIP;56KOHM,5%,1/10W,DA,TP,2012	11119-101-563
SR19,28	2007-001097	R-CHIP;62KOHM,5%,1/10W,DA,TP,2012	11119-101-623
SR41	2007-001118	R-CHIP;680OHM,5%,1/10W,DA,TP,2012	11119-101-681
SR43,23,33	2007-001177	R-CHIP;8.2KOHM,5%,1/10W,DA,TP,2012	11119-101-822
SC7	2203-000891	C-CERAMIC,CHIP;4.7NF,10%,50V,X7R,20	11129-012-472
SC1,2,6	2401-000303	C-AL;100UF,20%,25V,GP,6.3*11,2.5MM,	11608-104-104
SC3,4	2401-001887	C-AL;100NF,20%,50V,-,4X7MM,5,TP	
SC1L,1R,9L,9R	2401-001917	C-AL;1UF,20%,6.3V,-,4X7MM,5,TP	
SC10L,10R			
SC8	2401-001965	C-AL;470NF,20%,50V,-,4X7MM,1.5MM,BK	
AH90-40400P		**ASSY-OPT PCB MAIN;MM26,FTZ**	
AC10L,10R,11L,11R,16L,	2201-000565	C-CERAMIC,DISC;47NF,20%,50V,Y5V,12.	11417-344-473
AC16R,30			
ICF1	2903-000102	FILTER-CERAMIC;BP,10.7MHZ+-25KHZ	14529-301-770
FJ1	3716-000198	TERMINAL-BLOCK;NON SOLDER,3P,4MM,-,	A3059-0007
IL3	AH27-10001K	COIL-CHOKE;10MH,K,Q10,-,-,CL-3,-,-,	12429-505-100
AL1L,1R,2L,2R	AH27-90001A	COIL-SPRING;,2.2UH,-,-,SPRING	12429-060-030
FP1	AH40-10001T	TUNER;FE415-G11,-,75OHM	B1290-0001
AH90-10629C		**ASSY-PCB FRONT;MM26,SEG/50K/9K/L**	
UD14	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,5	
UR122	2001-000008	R-CARBON;15KOHM,5%,1/8W,AA,TP,1.8X3	11018-877-153
UR118,135	2001-000331	R-CARBON;12KOHM,5%,1/8W,AA,TP,1.8X3	11018-877-123
UR64	2007-000457	R-CHIP;18KOHM,5%,1/10W,DA,TP,2012	11119-101-183
UR75	2007-000710	R-CHIP;3.9KOHM,5%,1/10W,DA,TP,2012	11119-101-392
UR74	2007-001071	R-CHIP;6.8KOHM,5%,1/10W,DA,TP,2012	11119-101-682
AH90-30488A		**ASSY-COM PCB FRONT;MM26,-**	
UD2,3,4,5,17,18	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,5	
UD1,6	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-4	A4104-0053
UZD1,2	0403-000394	DIODE-ZENER;UZP5.6B,5.6V,5.2-6.0V,1	12169-404-110
UQ9	0501-000010	TR-SMALL SIGNAL;KSC1008-Y,NPN,80V,6	12149-301-050
UQ3	0501-000323	TR-SMALL SIGNAL;-,PNP,800MW,TO-92,T	12149-202-050
UQ1,2,4,5,6,7,8,10,11	0501-000398	TR-SMALL SIGNAL;-,NPN,250MW,TO-92,T	12149-301-900
ULED2,9	0601-000185	LED;ROUND,ORG,3.1MM,610NM	A4150-0288
ULED3,4,5,8	0601-000464	LED;ROUND,RED/RRN,3MM,567/630NM	A4150-0170
ULED1,6,10,12,15	0601-001065	LED;ROUND,GRN,3MM,555NM	

Loc No.	New Part No.	Description	Specification	Old Part No.
UIC1	0903-001010	IC-MICROCONTROLLER;78P064,8BIT,QFP,		
UC35,39,40,51,54	11129-004-473	C-CHIP,CERAMIC;CC 2012 X7R 473K T		
UR145	2001-000027	R-CARBON;100OHM,5%,1/4W,AA,TP,2.4X6		11018-277-101
UR136	2001-000221	R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X		11018-877-122
UR108,134	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X		11018-877-152
UR101,102,106,107, UR114,128	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X		11018-877-104
UR103,104 UR129	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3		11018-877-103
UR100,112,130,134,141 UR142,139	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.		11018-877-102
UR105,110,115,109, UR111,123 UR137,138	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X		11018-877-222
UR116,131	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3		11018-877-221
UR125,119,120	2001-000568	R-CARBON;27OHM,5%,1/8W,AA,TP,1.8X3.		11018-877-270
UR124,113	2001-000591	R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X		11018-877-332
UR117	2001-000613	R-CARBON;3.9KOHM,5%,1/8W,AA,TP,1.8X		11018-877-392
UR140	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X		11018-877-472
UR127	2001-000869	R-CARBON;56OHM,5%,1/8W,AA,TP,1.8X3.		11018-877-560
UR143	2001-000995	R-CARBON;820OHM,5%,1/8W,AA,TP,1.8X3		11018-877-821
UR121,126,144 UR132,133	2001-001006	R-CARBON;82OHM,5%,1/8W,AA,TP,1.8X3.		11018-877-820
UR23,24	2007-000001	R-CHIP;68KOHM,5%,1/10W,DA,TP,2012		11119-101-683
UR42	2007-000023	R-CHIP;120OHM,5%,1/10W,DA,TP,2012		11119-201-121
UJW1,2,3,4,5,6,7,8,11 UJW9,10,15,16 UJW12,13,14,16	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012		11119-101-000
UR67	2007-000030	R-CHIP;560OHM,5%,1/10W,DA,TP,2012		11119-101-561
UR36,47,59	2007-000241	R-CHIP;1.5KOHM,5%,1/10W,DA,TP,2012		11119-101-152
UR13,69	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012		11119-101-104
UR22,25,26,27,29,30,35	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012		11119-101-103
UR28,31	2007-000449	R-CHIP;180OHM,5%,1/10W,DA,TP,2012		11119-101-181
UR21,15,16,17,18,19,1,2, UR3,5,10,UR4,6,7,8,9,12, UR37,38,39,40 UR41,46,51,68,70,71,72,73	2007-000493	R-CHIP;2.2KOHM,5%,1/10W,DA,TP,2012		111119-101-222
UR20	2007-000565	R-CHIP;220KOHM,5%,1/10W,DA,TP,2012		11119-101-224
UR49,50,53,54,60	2007-000593	R-CHIP;22OHM,5%,1/10W,DA,TP,2012		11119-101-220
UR44	2007-000642	R-CHIP;270OHM,5%,1/10W,DA,TP,2012		11119-101-270
UR52,55,57,61	2007-000686	R-CHIP;3.3KOHM,5%,1/10W,DA,TP,2012		11119-101-332
UR32	2007-000778	R-CHIP;33OKOHM,5%,1/10W,DA,TP,2012		11119-101-334
UR56	2007-000931	R-CHIP;470OHM,5%,1/10W,DA,TP,2012		11119-101-471
UR43	2007-001043	R-CHIP;56OHM,5%,1/10W,DA,TP,2012		11119-101-560
UR62	2007-001071	R-CHIP;6.8KOHM,5%,1/10W,DA,TP,2012		11119-101-682
UR48	2007-001118	R-CHIP;680OHM,5%,1/10W,DA,TP,2012		11119-101-681
UR63	2007-001177	R-CHIP;8.2KOHM,5%,1/10W,DA,TP,2012		11119-101-822
UR45	2007-001201	R-CHIP;820OHM,5%,1/10W,DA,TP,2012		11119-101-821
UC14,15	2201-000202	C-CERAMIC,DISC;10PF,5%,50V,NPO,5.0*		11407-057-100
UC11,16	2201-000273	C-CERAMIC,DISC;18PF,5%,50V,NPO,5.0*		11407-057-180
UC2,9	2202-000781	C-CERAMIC,MLC-AXIAL;100PF,10%,50V,Y		11449-518-101

Loc No.	New Part No.	Description	Specification	Old Part No.
UC3,5,6,7,8	2202-000806	C-CERAMIC,MLC-AXIAL;220PF,10%,50V,Y		11449-518-221
UC19,20				
UC4	2202-000807	C-CERAMIC,MLC-AXIAL;22NF,+80-20%,25		11448-010-223
UC10,12,17,18	2202-000854	C-CERAMIC,MLC-AXIAL;47NF,0.3,50V,Y5		
UC38,42,50	2203-000444	C-CERAMIC,CHIP;1NF,10%,50V,X7R,2012		11129-004-102
UC28,29,30,31,32,34,37,	2203-000595	C-CERAMIC,CHIP;220PF,5%,50V,NPO,201		11129-001-221
UC41,43,44,45,46,47,48,				
UC49,52,53,55				
UC44,45,46,47,48,49,				
UC52,53,55				
UC27,33,36	2203-000609	C-CERAMIC,CHIP;22NF,10%,50V,X7R,201		11129-004-223
UC13	2401-000778	C-AL;220UF,20%,10V,GP,6.3X11,2.5MM,		11608-102-224
UC25	2401-001891	C-AL;100UF,20%,10V,BP,6X11MM,5MM,TP		11608-202-101
UC23	2401-001917	C-AL;1UF,20%,6.3V,-,4X7MM,5,TP		
UC24	2401-001919	C-AL;2.2UF,20%,50V,-,4X7MM,5,TP		
UC22	2409-000123	C-EDL;47000UF,4UA,5.5V,-,-,5MM,BK		B1104-0540
UL1,2,3,4,5,6	2701-000111	INDUCTOR-AXIAL;100UH,10%,2.5X3.4MM		12429-411-101
UX2	2801-001394	CRYSTAL-UNIT;32.768KHZ,20PPM,28-AAY		14539-502-350
UX1	2801-001398	CRYSTAL-UNIT;4.5MHZ,50PPM,28-AAM,12		14539-003-010
USW1,2,3,4,5,6,7,8,9,10	3404-000165	SWITCH-TACT;12V,50MA,160GF+-50GF,6X		1 13559-901-100
USW12,13,14,15,16,17,18,19				
USW20				
UCW3	3708-000451	CONNECTOR-FPC/FC/PIC;16P,1.25MM,STR		B6010-1549
UCW4	3710-000209	CONNECTOR-SOCKET;5P,1R,2MM,STRAIGHT		13349-168-051
UCW1,2	3710-000540	CONNECTOR-SOCKET;24P,-,1.25MM,STRAI		
ULP1,2,3,4	4713-000158	LAMP-NEON;9V,75MA,0.7W,TRP,3X5.3MM,		B4158-0043
ULCD1	AH07-10035A	LCD-PANNEL;-,LE-0726AP,MM26,-		
UIC3	AH14-10004M	IC;NJU3713G,SOP,TAPE 18P		
UCW4	AH39-20559J	LEAD CONNECTOR-ASSY;-,51004-05,-,5P		
REMOCON EYE	AH59-60001J	MODULE-REMOCON;GP1U271R,38KHZ,-,MES		B1294-0043
HOLDER LCD	AH67-40025A	FILTER-LCD;-,PC,T0.5,-,-,-,-,MM-2		
ULP1,2,3,4	AH73-10007A	RUBBER-CAP;SILICON,-,RCD-1650,GRN		

G3A8-1/16/C ASSY CD PACK;G3A8 TOP CD MM16/26/CK

	3809-000203	CABLE-FLAT;30V,80C,300MM,16P,1.25MM		A6032-0085

NCW103 AH90-10346J ASSY-PCB,CD;G3A8, 19129-0357-08

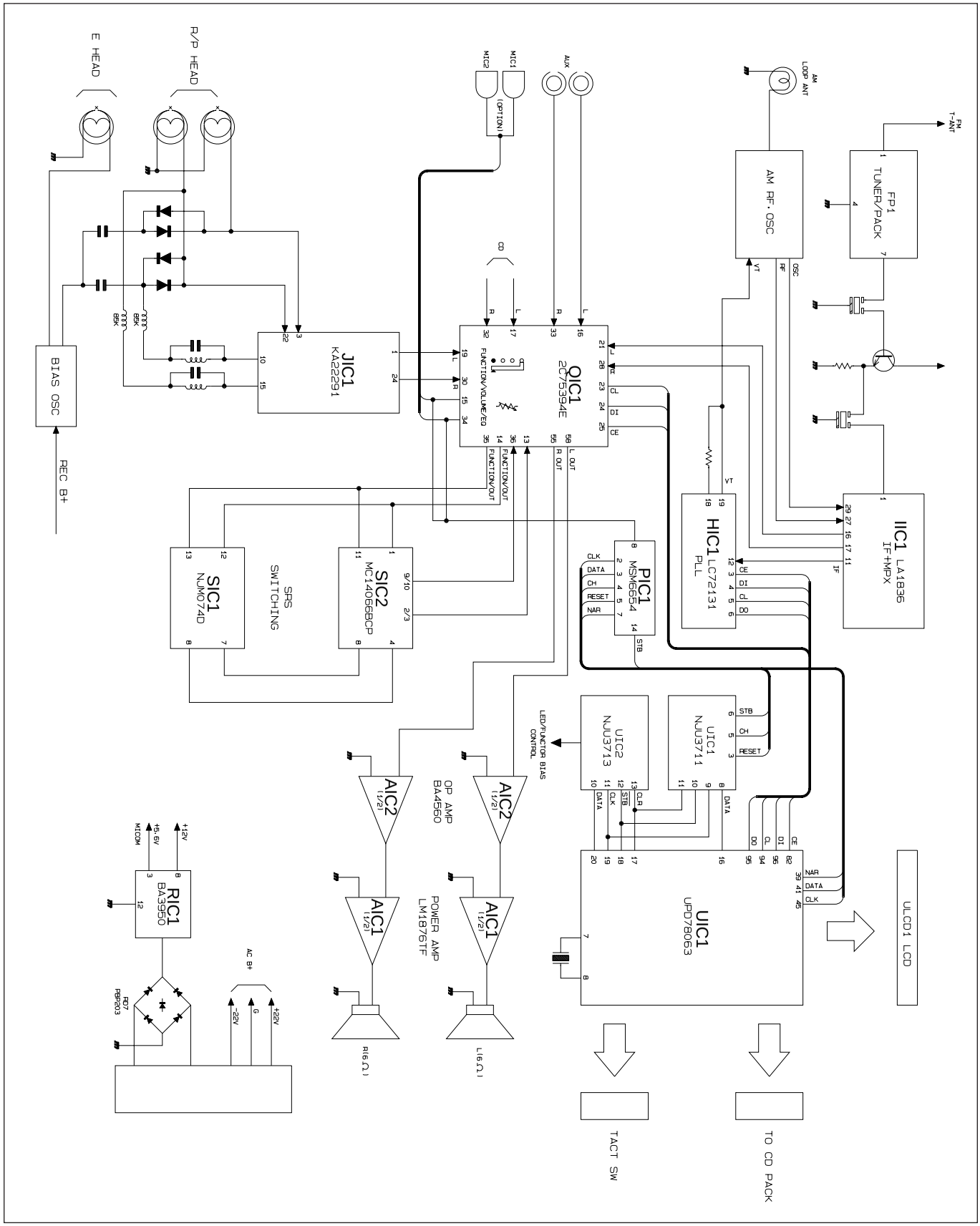
ND200,201,202,203	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,5		
NZD101	0403-000358	DIODE-ZENER;UZ5.6BSB,5.6V,5.46-5.7V		12169-404-790
NQ1502	0501-000323	TR-SMALL SIGNAL;-,PNP,800MW,TO-92,T		12149-202-050
NQ1501	0501-000610	TR-SMALL SIGNAL;-,PNP,1W,TO-92L,TP,		
NIC9282	0904-000157	IC-DSP;9282,-,QFP,80P,-,16.9344MHZ,		A4012-0291
NIC9258	1003-000179	IC-MOTOR DRIVER;KA9258D,SOP,28P,-,S		
NIC9270	1204-000110	IC-AUDIO FILTER;KA9270,SOP,20P,-,PL		A4012-0089
NIC9220	1204-001041	IC-ASP;KA9220B,QFP,80P,-,PLASTIC,6V		
NR605	2007-000001	R-CHIP;68KOHM,5%,1/10W,DA,TP,2012		11119-101-683
NR606,611,608,609,610	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012		11119-101-000
NR47L,47R,104,203,NRD	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012		11119-101-104
NR106,107	2007-000338	R-CHIP;120KOHM,5%,1/10W,DA,TP,2012		11119-101-124
NR41L,41R,204,191,100	2007-000355	R-CHIP;12KOHM,5%,1/10W,DA,TP,2012		11119-101-123

Loc No.	New Part No.	Description	Specification	Old Part No.
NR190				
NR103,119	2007-000395	R-CHIP;150KOHM,5%,1/10W,DA,TP,2012		11119-101-154
NR110	2007-000409	R-CHIP;15KOHM,5%,1/10W,DA,TP,2012		11119-101-153
NR115	2007-000444	R-CHIP;180KOHM,5%,1/10W,DA,TP,2012		11119-101-184
NR102,109,205,45L,45R	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012		11119-101-102
NR42L,42R,114	2007-000477	R-CHIP;1MOHM,5%,1/10W,DA,TP,2012		11119-101-105
NR40L,40R	2007-000586	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012		11119-101-223
NR101	2007-000593	R-CHIP;22OHM,5%,1/10W,DA,TP,2012		11119-101-220
NR43L,43R,200	2007-000653	R-CHIP;27KOHM,5%,1/10W,DA,TP,2012		11119-101-273
NR201,202	2007-000686	R-CHIP;3.3KOHM,5%,1/10W,DA,TP,2012		11119-101-332
NR105	2007-000830	R-CHIP;39KOHM,5%,1/10W,DA,TP,2012		11119-101-393
NR44L,44R,46L,46R	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012		11119-101-472
NR117	2007-000898	R-CHIP;430KOHM,5%,1/10W,DA,TP,2012		11119-101-434
NR111,108	2007-000941	R-CHIP;47KOHM,5%,1/10W,DA,TP,2012		11119-101-473
NR112	2007-001039	R-CHIP;56KOHM,5%,1/10W,DA,TP,2012		11119-101-563
NR113	2007-001177	R-CHIP;8.2KOHM,5%,1/10W,DA,TP,2012		11119-101-822
NR116	2007-001195	R-CHIP;820KOHM,5%,1/10W,DA,TP,2012		11119-101-824
NR118	2007-001213	R-CHIP;82OHM,1%,1/10W,DA,TP,2012		11119-102-820
NR555	2008-000141	R-FUSIBLE;2.2OHM,5%,1/4W,AA,TP,2.6X		11058-277-229
NVR1701	2103-000007	VR-SEMI;50KOHM,30%,1/10W,SIDE		11249-102-063
NVR1702,1703,1704	2103-000291	VR-SEMI;20KOHM,30%,1/10W,SIDE		11249-102-043
NC119,120,121,107,108	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5		
NC603				
NC205,110,116,102,103	2203-000260	C-CERAMIC,CHIP;10NF,10%,50V,X7R,201		11129-004-103
43R,44L,500,600,601,602				
NC700,701				
NC1000,1001	2203-000361	C-CERAMIC,CHIP;150PF,5%,50V,NPO,201		
NC112	2203-000495	C-CERAMIC,CHIP;2.2NF,10%,50V,X7R,20		11129-004-222
NC118	2203-000787	C-CERAMIC,CHIP;330PF,5%,50V,NPO,201		
NC113,125,101	2203-000802	C-CERAMIC,CHIP;33NF,10%,50V,X7R,201		11129-001-333
NC100	2203-000892	C-CERAMIC,CHIP;4.7NF,10%,50V,X7R,20		
NC204,124	2203-000925	C-CERAMIC,CHIP;470NF,+80-20%,50V,Y5		11128-018-474
NC200	2203-000979	C-CERAMIC,CHIP;47NF,10%,50V,X7R,201		
NC2000	2203-001026	C-CERAMIC,CHIP;4PF,0.25PF,50V,SL,20		
NC45R,46L	2203-001058	C-CERAMIC,CHIP;560PF,5%,50V,NPO,201		11129-019-561
NC111	2203-001105	C-CERAMIC,CHIP;6.8NF,10%,50V,X7R,20		11129-004-682
NC115	2203-001137	C-CERAMIC,CHIP;68NF,+80-20%,50V,Y5V		11129-004-683
NC190	2203-001256	C-CERAMIC,CHIP;8PF,0.25PF,50V,NPO,2		
NC109,104,42R,43L	2203-001537	C-CERAMIC,CHIP;1NF,10%,50V,X7R,2012		
NC41L,41R	2203-001550	C-CERAMIC,CHIP;1.2NF,10%,50V,X7R,20		
NC201	2203-001551	C-CERAMIC,CHIP;1.5NF,10%,50V,X7R,20		
NC202,203	2203-001619	C-CERAMIC,CHIP;27PF,5%,50V,NPO,2012		
NC702,105	2401-000243	C-AL;100UF,20%,10V,GP,6.3*5,2.5MM,T		11608-152-101
NC114	2401-000419	C-AL;10UF,20%,16V,GP,5X11,5,-		
NC703	2401-000778	C-AL;220UF,20%,10V,GP,6.3X11,2.5MM,		11608-102-224
NC700,701	2401-000868	C-AL;220UF,20%,4V,GP,6.3*5,2.5MM,TP		11608-171-221
NC45L,44R,40L,40R,122	2401-001238	C-AL;4.7UF,20%,25V,GP,3*5,1MM,TP		11608-154-479
NC42L	2401-001502	C-AL;47UF,20%,16V,GP,6.3*5,2.5MM,TP		11608-153-470
NC117	2401-001968	C-AL;470NF,20%,50V,GP,5X11MM,5,TP		
NL100	2703-000002	INDUCTOR-SMD;100UH,10%,2.5X3.2X2MM		11176-600-040
NXF100	2802-000211	RESONATOR-CERAMIC;16.93MHZ,0.5%,TP,		14539-503-083

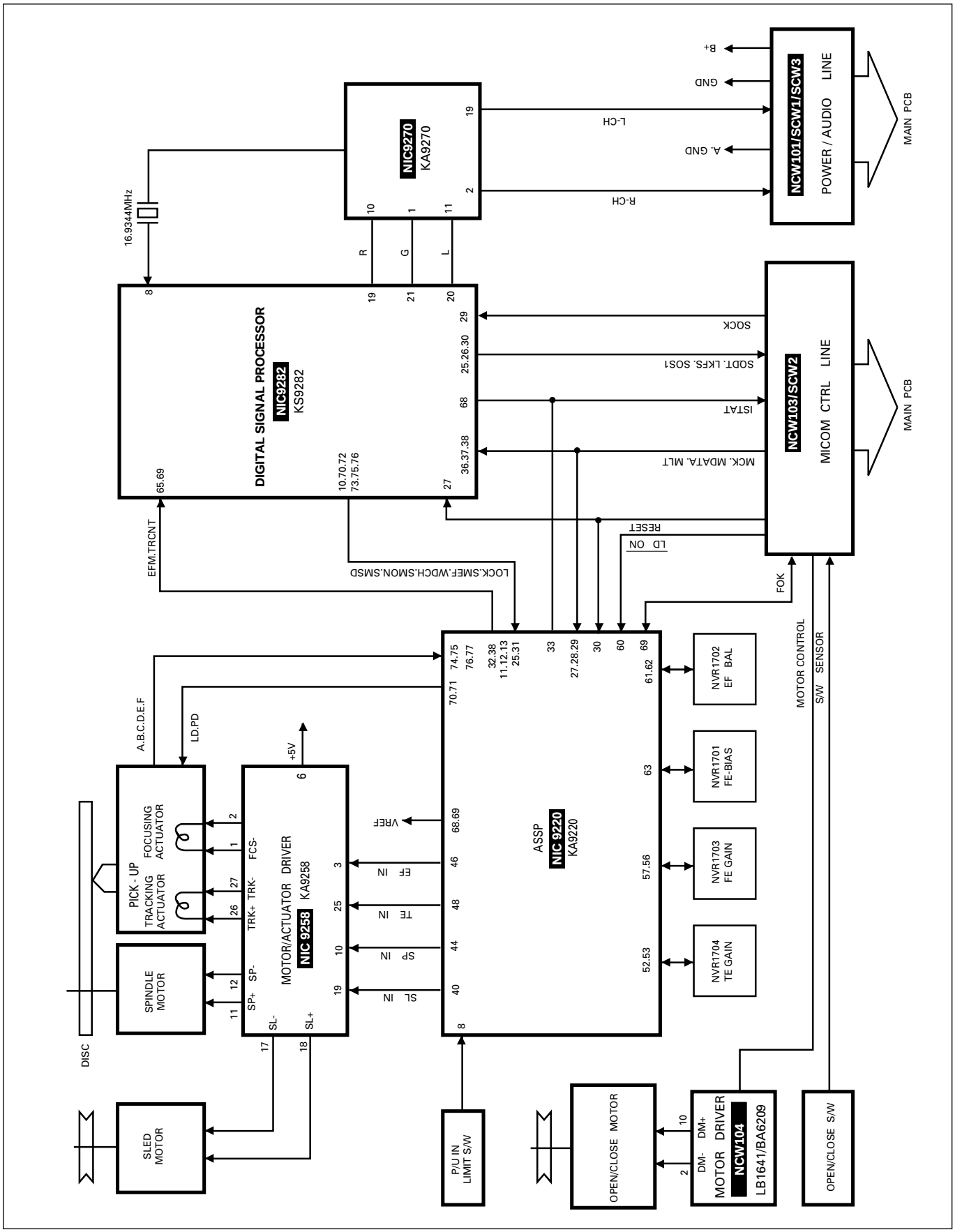
Loc No.	New Part No.	Description	Specification	Old Part No.
NS100	3409-000174	SWITCH-LEAF;16VDC,500MA,10GF,SPST		13564-601-100
NCW100	3708-000177	CONNECTOR-FPC/FC/PIC;16P,1.0MM,ANGL		A6010-1523
NCW103	3708-000413	CONNECTOR-FPC/FC/PIC;16P,1.25MM,ANG		A6010-1525
NCW101	3711-001136	CONNECTOR-HEADER;BOX,8P,1R,2MM,ANGL		13349-139-080
NIC05	AC14-12001G	IC;KA78L05,T,-		
	AH61-20227A	HOLDER-PCB;NYLON66,-,NTR,DAHP-18N,M		13324-0209-00
	AH62-30047A	HEAT SINK;ETHD,-,T0.5,-,-,-,MAX-555		11124-0061-00

9. Block Diagrams

9-1 Main



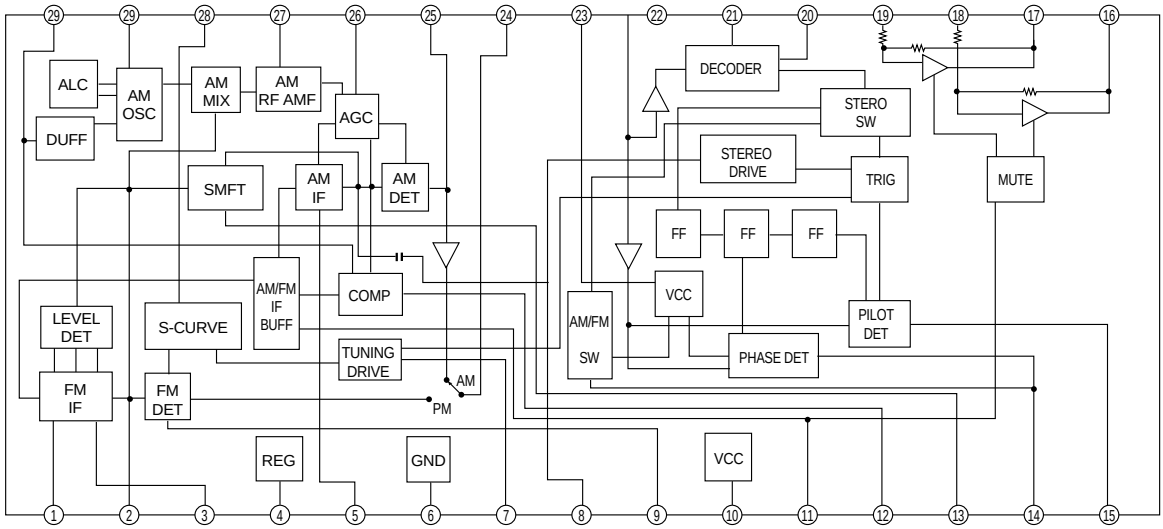
9-2 CD


B+
GND
A. GND
L-CH
R-CH
NCW101/SCW1/SCW3
POWER / AUDIO LINE
MAIN PCB
NIC9270
KA9270
16.9344MHz
R
G
L
DIGITAL SIGNAL PROCESSOR
NIC9282
KS9282
SOCK
SODT. LKFS. SOS1
ISTAT
MCK. MDATA. MLT
NCW103/SCW2
MICOM CTRL LINE
MAIN PCB
RESET
LD ON
EFM.TRCNT
LOCK.SMEF.WDCH.SMON.SMSD
FOK
MOTOR CONTROL
S/W SENSOR
A.B.C.D.E.F
LD.PD
+5V
VREF
ASSP
NIC 9220
KA9220
NVR1702
EF BAL
NVR1701
FE-BIAS
NVR1703
FE GAIN
NVR1704
TE GAIN
PICK - UP
TRACKING
ACTUATOR
FOCUSING
ACTUATOR
MOTOR/ACTUATOR DRIVER
NIC 9258
KA9258
SPINDLE
MOTOR
SLED
MOTOR
DISC
EF IN
TE IN
SP IN
SL IN
P/U IN
LIMIT S/W
OPEN/CLOSE MOTOR
MOTOR DRIVER
NCW104
LB1641/BA6209
OPEN/CLOSE S/W

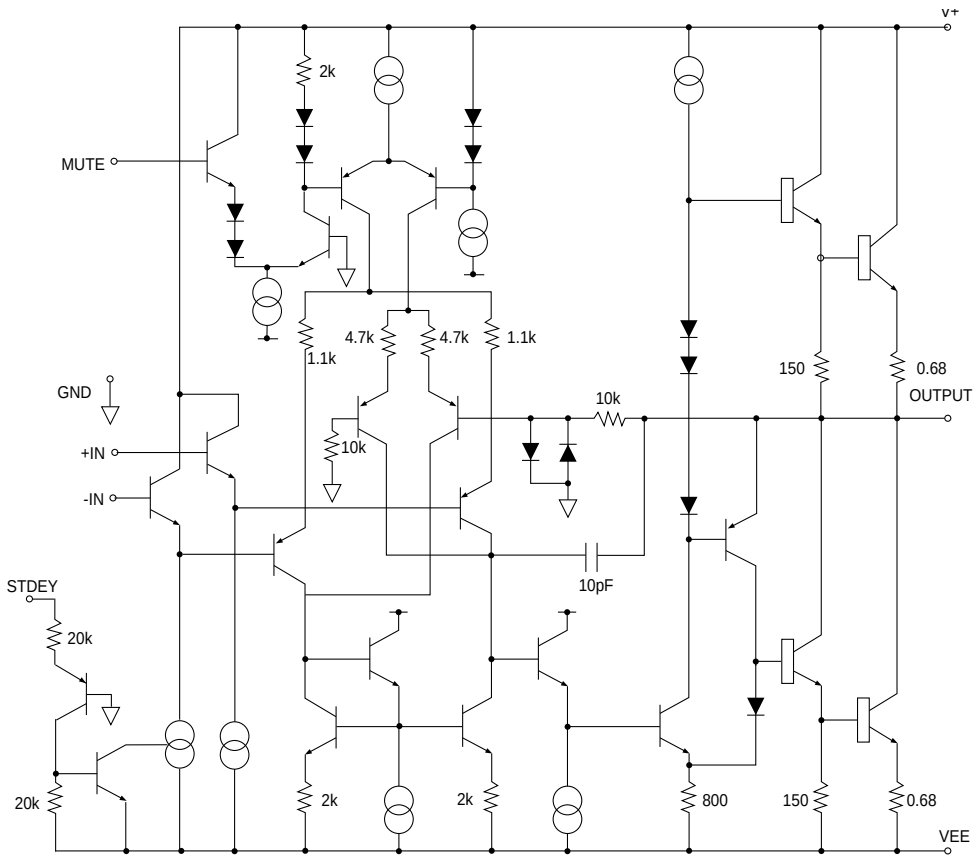
9-3 IC & TR Internal Diagrams

9-3-1 Main

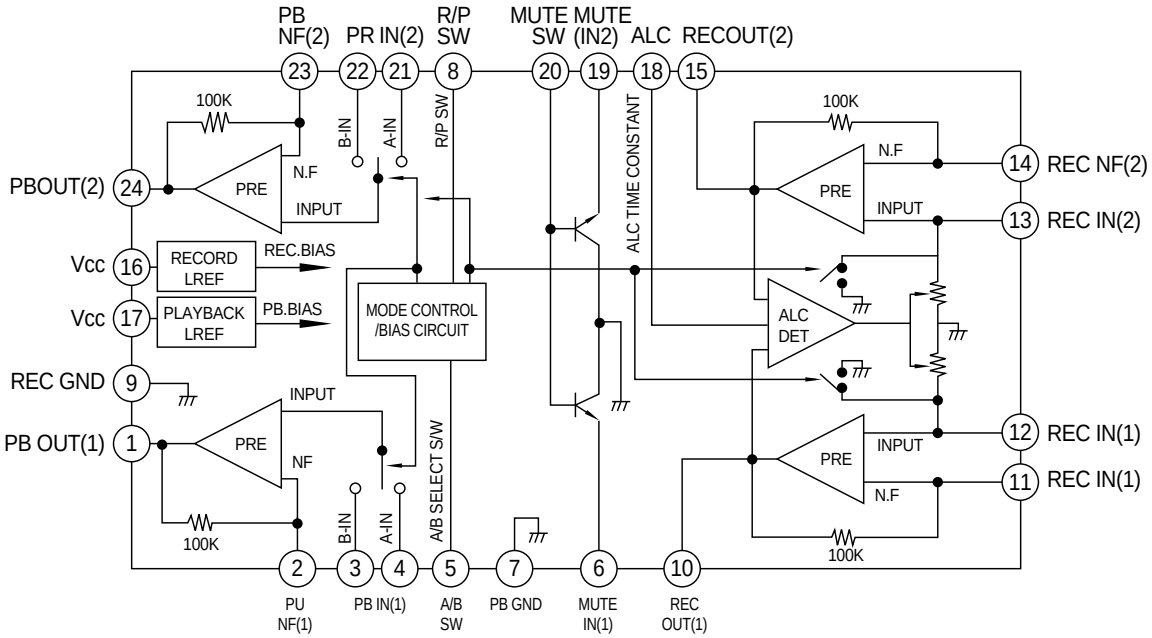
LA1836 : IIC1



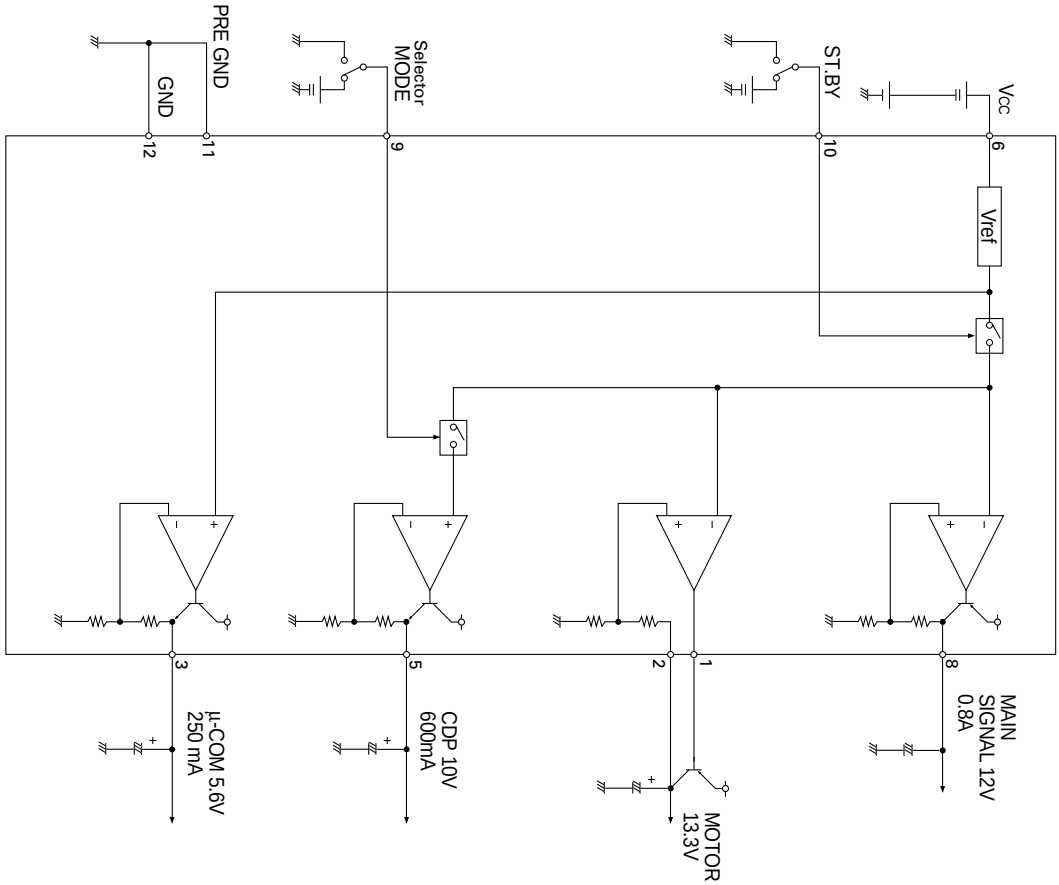
LM1876 : AIC1



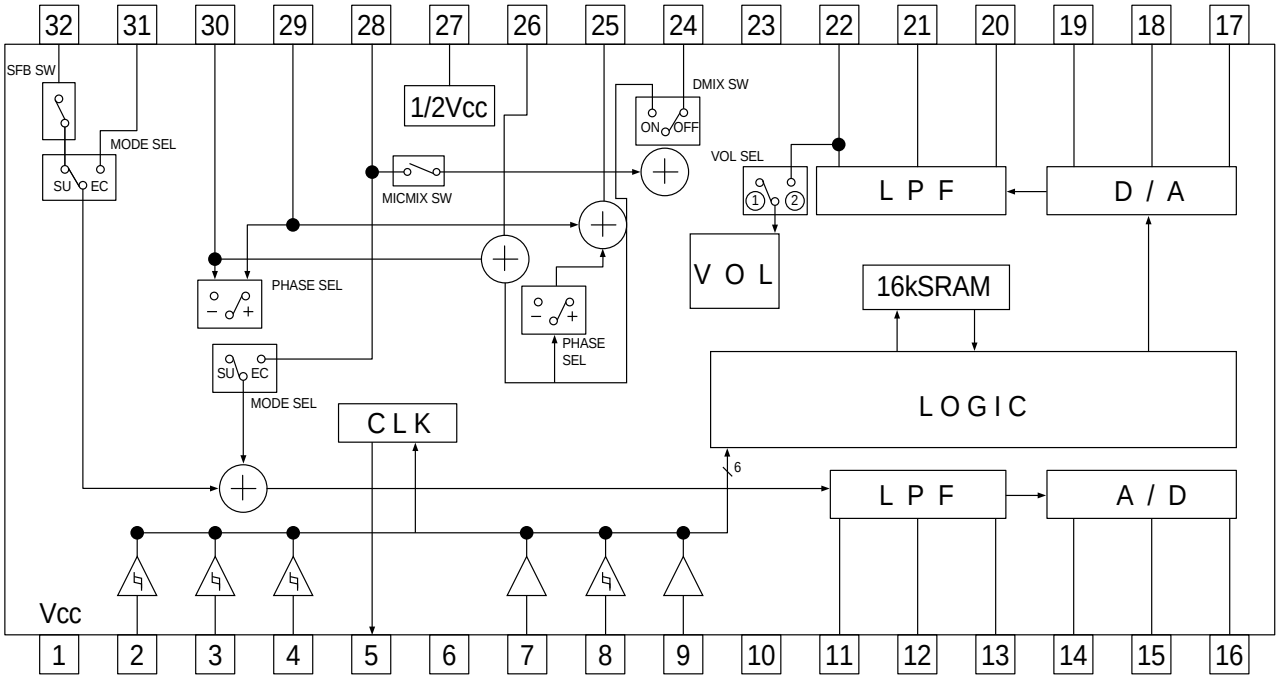
KA22291 : JIC1



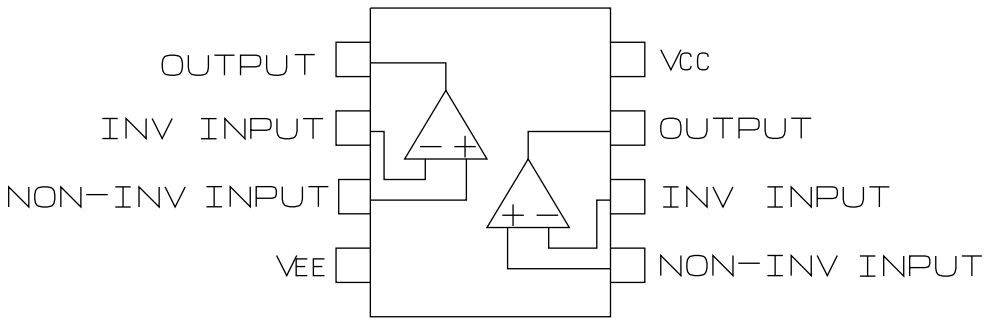
BA3950 : RIC1



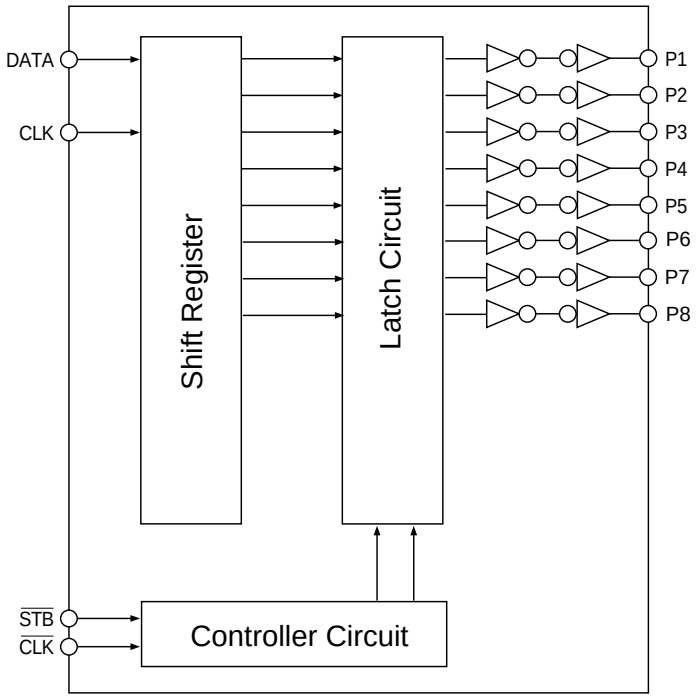
M65846FP : MIC1 (OPTION)

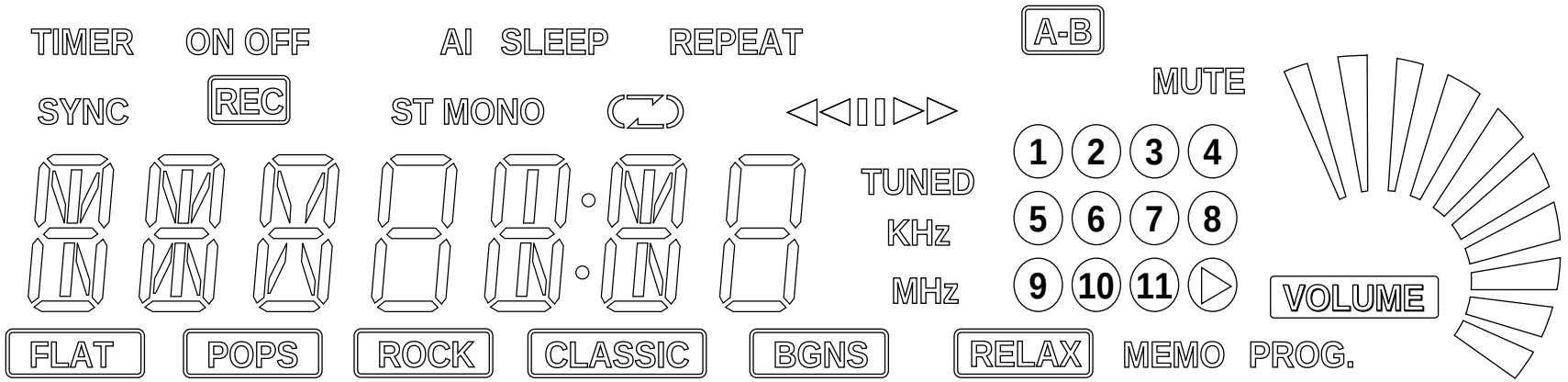


BA4560 : AIC2,LIC1,PIC2(OPTION), MIC2(OPTION), MIC3(OPTION)



NJU3711 : UIC3





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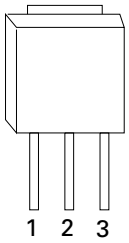
COM 1	COM 1	/	/	/	6M	5M	2K.M	1E	1M	1C	2D	OFF	2C	3D	3M	3C	4D	4C
COM 2	/	COM2	/	/	6H.I	5H.I	2H.I	1E	1H.I	1G	2E	ON	2G	3E	3K	3G	4E	4G
COM 3	/	com3	/	/	6J	ROCK	2J	1F	1J.L	1B	2F	2L	2B	3F	3J	3B	4F	4B
COM 4	/	/	/	COM4	FLAT	POPS	P2	1A	SYNC	TIMER	2A	REC	ST	3A	3L	AI	4A	MONO
	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
COM 1	5D	5C	P1	/	6D	REPEAT	6C	7D	7C	MHz	/	⑧	④	③	S6	S1	S7	VOLUME
COM 2	5E	5G	COL	CLASSIC	6E	T1	6G	7E	TG	KHz	⑪	⑦	⑥	②	S5	S2	S8	RELAX
COM 3	5F	5B	☾	⇦	6F	6L	6B	7F	7B	TUNED	⑪	⑨	⑤	①	S4	S3	S9	S10
COM 4	5A	SLEEP	⇨	☽	6A	T2	T3	7A	7E	T5	1	A-B	▷	MUTE	MEMO	/	PROG.	BGNS

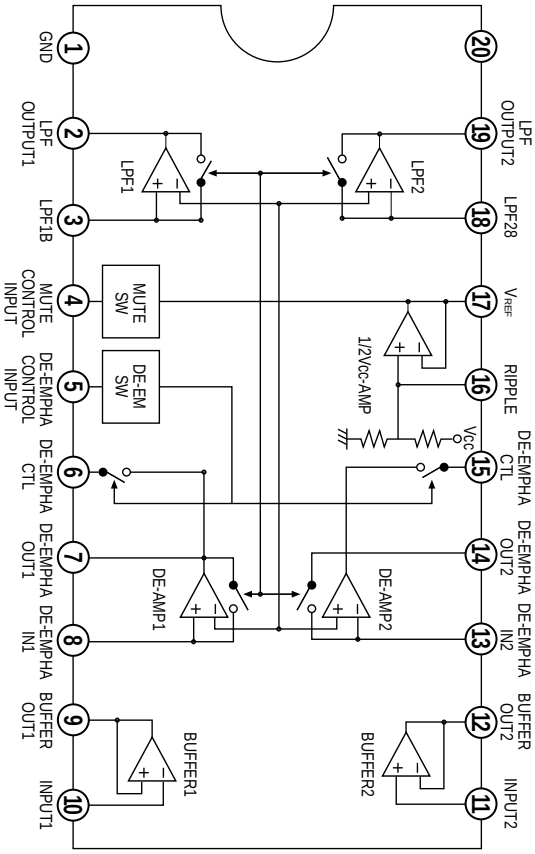
9-3-2 CD



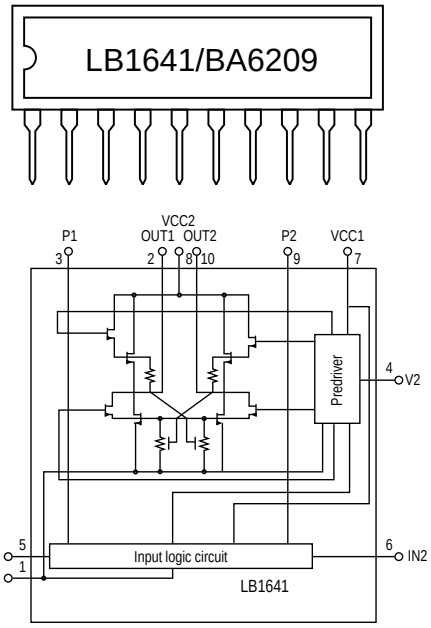
TR	1	2	3
KSR1003 A928	E	C	B

* NOTE : KSB564 ='EBC' TYPE

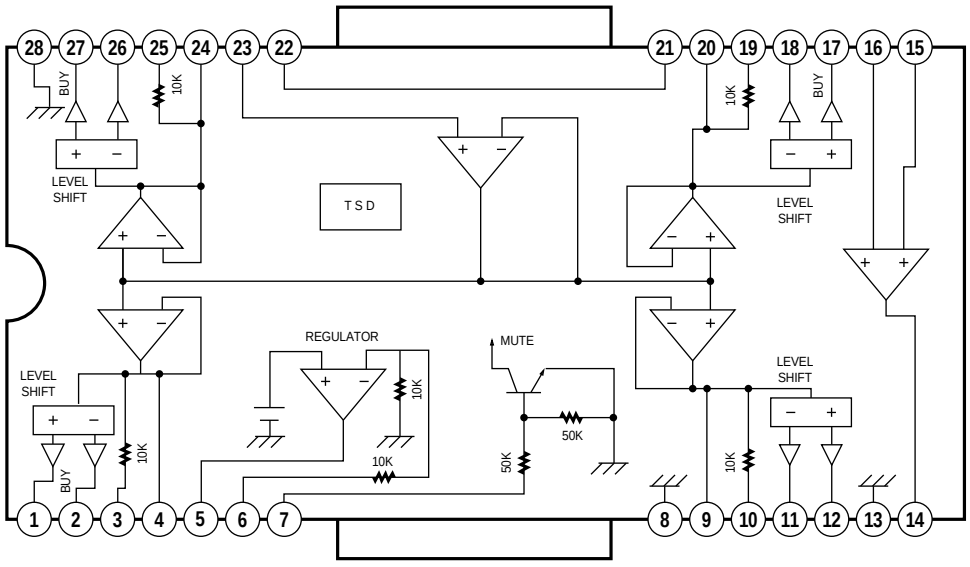
KA9270 : NIC9270



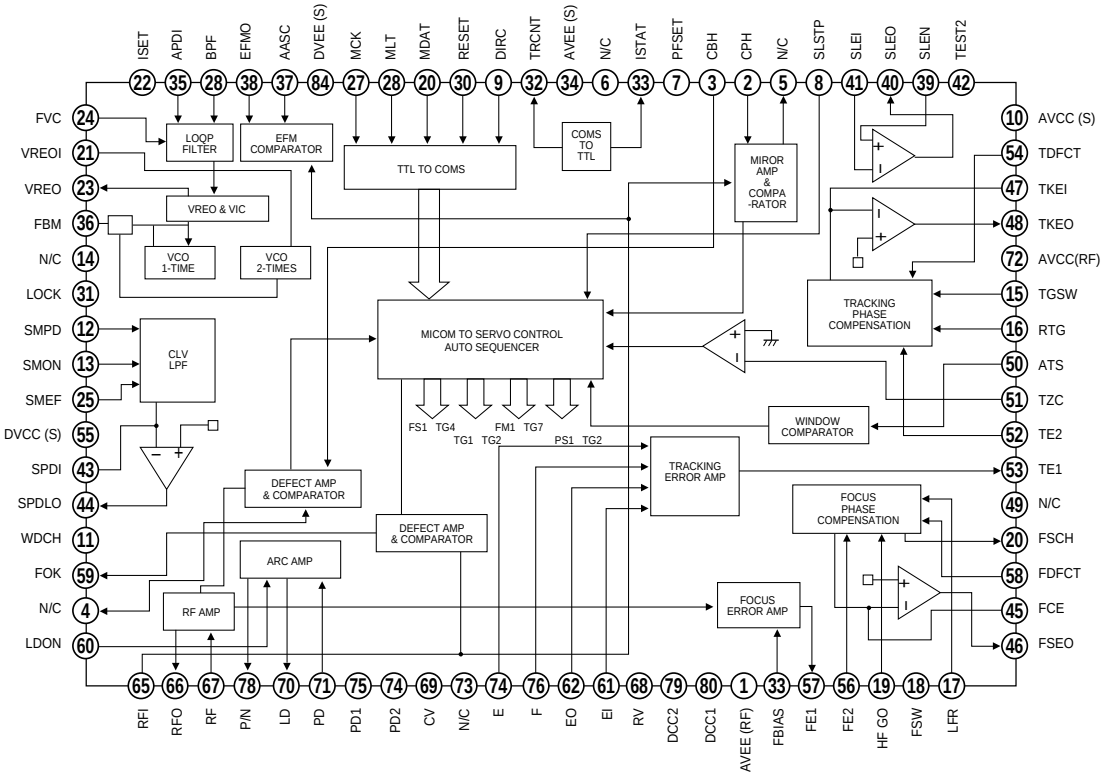
LB1641/BA6209(MOTOR DRIVER) : NIC1641



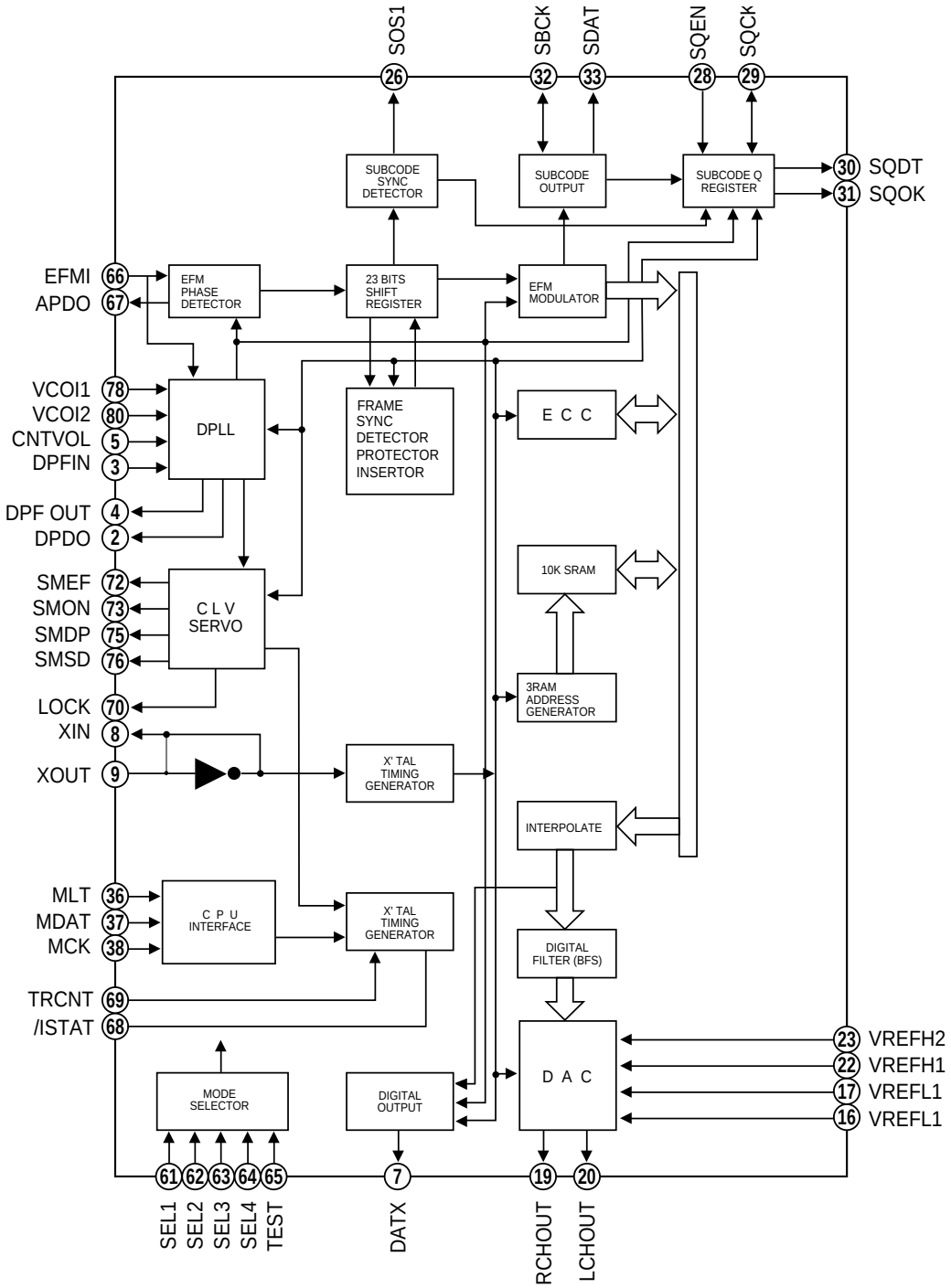
KA9258 : NIC9258



KA9220(ASSP) : NIC9220



KS9282(DSP) : NIC9282



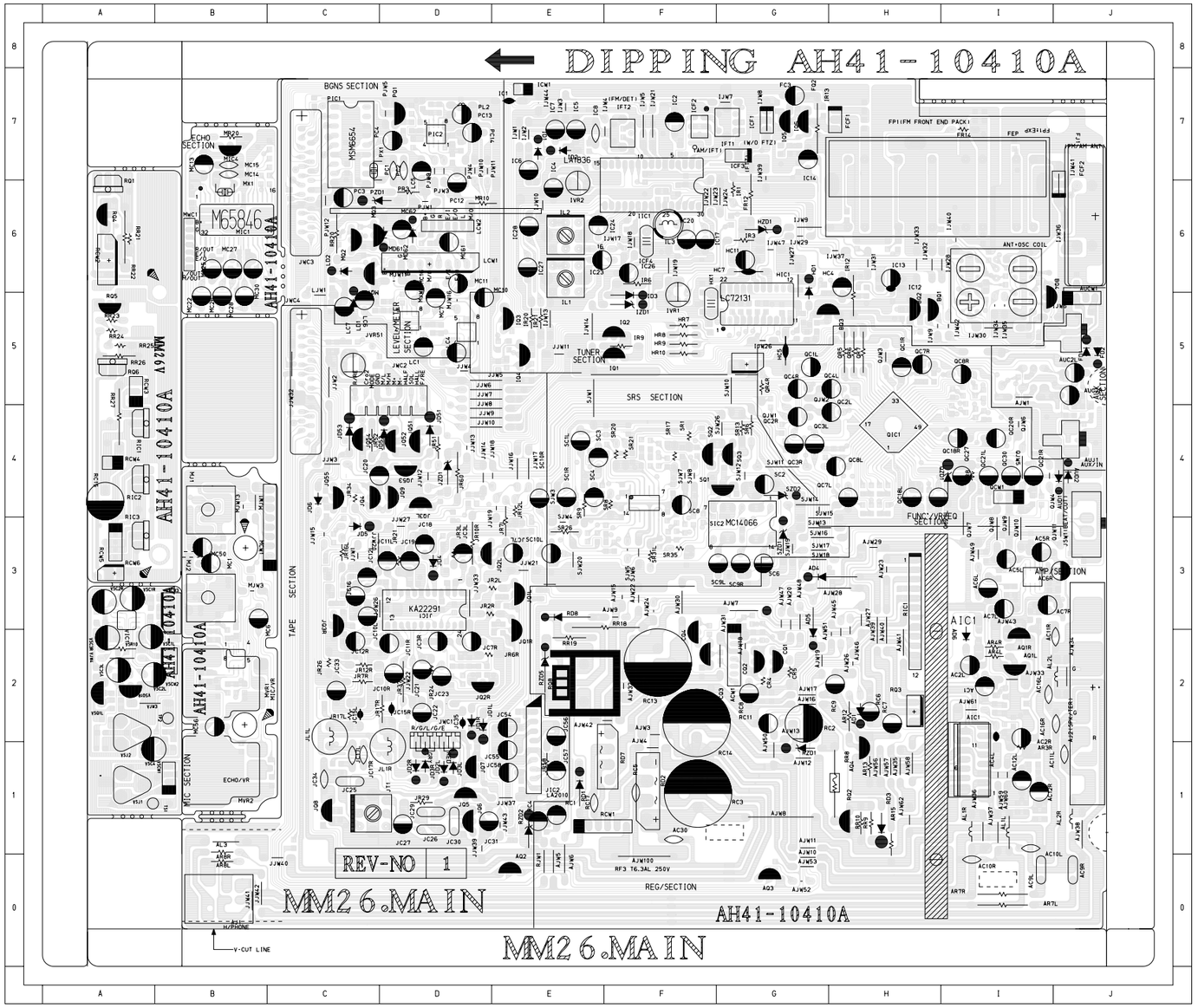
9-4 µ-COM (LC72362N-9265) : UIC1

Pin No.	Port	Name	I/O	Descriptions
1	P2 6	ISTAT	I	SENSE
2	7	SQCK	O	SUB Q DATA INPUT CLOCK
3	P7 0			
4	1			
5	2			
6	VSS			
7	X1		I	MAIN SYSTEM CLOCK
8	X2			
9	VDD			
10	XT1		I	SUB SYSTEM CLOCK
11	XT2			
12	RESET			
13	P0 0	HOLD	I	HOLD INPUT
14	1	REMOCON	I	REMOCON INPUT
15	2	SCOR	I	SCOR INTERRUPT
16	3	DO 1	O	NJU3711,NJU3714 CONTROL DATA OUT
17	4	CLR	O	NJU3711,NJU3714 CLEAR
18	5	CE 11	O	NJU3714 (OUTPUT EXPANDER) CONTROL CE
19	P11 0	CLK 1	O	NJU3711, NJU3714 CONTROL CLOCK
20	1	CE 12	O	NJU3711 (OUTPUT EXPANDER) CONTROL CE
21	2	AMPSIN	I	AMPS SIGNAL IN
22	3	MO/ST	I	TUNER MONO/STEREO INPUT
23	4	DEMT	O	TAPE MUTE
24	5	SOL	O	DECK SOLENOID
25	6	MOTOR	O	DECK MOTOR CONTROL
26	7	R_SW	I	TAPE REVERSE RECORDING CHECK
27	AVss		-	A/D CONVERTER GROUND POTENTIAL
28	P1 0	KEY 1	I	A/D KEY INPUT 1
29	1	KEY 2	I	A/D KEY INPUT 2
30	2	KEY 3	I	A/D KEY INPUT 3
31	3	EQIN	I	E- LEVEL INPUT
32	4	MODE	I	TAPE MECHA CHECK MODE
33	5	HALF	I	TAPE IN CHECK
34	6	HALL	I	TAPE HALL CHECK
35	7	F_SW	I	TAPE FORWARD RECORDING CHECK
36	AVdd		-	A/D CONVERTER ANALOG POWER SUPPLY
37	AVref		-	A/D CONVERTER REFERENCE VOLTAGE INPUT
38	P10 0	AMUTE	O	MAIN AUDIO MUTE
39	1	NAR	I	BGNS NAR INPUT
40	Vss			
41	P10 2	BD0	O	BGNS CONTROL DATA
42	3	CLK 2	O	LC72131, LC75394E CONTROL CLOCK
43	P3 0	DO 2	O	LC72131 (TUNER IC) CONTROL DATA
44	1	CE 2	O	LC72131 CONTROL CE
45	2	BCLK	O	BGNS CONTROL CLOCK
46	3	TMT	O	TUNER MUTE CONTROL
47	4	DI 2, DO 3	I/O	LC72131 DATA INPUT, LC75394 CONTROL DATA OUTPUT
48	5	CE 3	O	LC75394E (FUNCTION) CONTROL CE
49	6	PSENS	O	POWER SENSE
50	7	CLSW	I	CD DOOR CLOSE CHECK

Pin No.	Port	Name	I/O	Descriptions
51	COM 0	LCD	O	
52	COM 1	"	O	LCD DRIVER COMM SIGNAL OUTPUT 0 - 3
53	COM 2	"	O	
54	COM 3	"	O	
55	BIAS	"	-	LCD DRIVER POWER SUPPLY
56	VLC 0	"	-	
57	1	"	-	LCD DRIVE VOLTAGE 0 - 2
58	2	"	-	
59	Vss			
60	SEG 1	LCD	O	LCD DRIVER EGMENT SIGNAL OUTPUT 1 - 32
61	2	"	O	
62	3	"	O	
63	4	"	O	
64	5	"	O	
65	6	"	O	
66	7	"	O	
67	8	"	O	
68	9	"	O	
69	10	"	O	
70	11	"	O	
71	12	"	O	
72	13	"	O	
73	14	"	O	
74	15	"	O	
75	16	"	O	
76	17	"	O	
77	18	"	O	
78	19	"	O	
79	20	"	O	
80	21	"	O	
81	22	"	O	
82	23	"	O	
83	24	"	O	
84	25	"	O	
85	26	"	O	
86	27	"	O	
87	28	"	O	
88	29	"	O	
89	30	"	O	
90	31	"	O	
91	32	"	O	
92	P8 7	OPTION	I	TUNER OPTION INPUT
93	6	MCK	O	DSP/SSP CONTROL CLOCK
94	5	LD XRT	O	LD ON AND DSP/SSP RESET CONTROL
95	4	MDATA	O	DSP/SSP CONTROL DATA
96	3	MLT	O	DSP/SSP CONTROL LATCH
97	2	CDMT	O	CD MUTE CONTROL
98	1	SQDT	I	SUB Q DATA INPUT
99	0	LKFS	I	GFS INPUT
100	P2 5	FOX	I	FOCUS OK

10. PCB Diagrams

10-1 Main



XXX RESISTOR XXX

AR12 (H2)
AR13 (H1)
AR15 (H0)
AR3R (I1)
AR4L (I2)
AR4R (I2)
AR7L (I0)
AR7R (I0)
AR8L (B0)
AR8R (B1)
CR4 (G2)
CR5 (G2)
FR12 (G6)
FR14 (I7)
HR10 (F5)
HR7 (F5)
HR8 (F5)
HR9 (F5)
IR1 (G6)
IR12 (H5)
IR13 (G7)
IR20 (E5)
IR21 (E5)
IR3 (G6)
IR6 (F6)
IR9 (E5)
JR10R (D3)
JR12L (E3)
JR12R (C2)
JR16L (C3)
JR17L (C2)
JR17R (D2)
JR21 (D3)
JR24 (D2)
JR26 (C2)
JR29 (D1)
JR2L (D3)
JR2R (D3)
JR34 (C4)
JR37 (D2)
JR3L (D3)
JR51 (D4)
JR52 (C4)
JR58 (E1)
JR60 (D4)
JR6R (E2)
JR7L (E3)
JR7R (C2)
KD3 (B4)
MR10 (D6)
MR20 (B7)
PR3 (D6)
QR4R (G5)
QR5 (H5)
QR6 (H5)
QR7 (H5)
QR8 (I4)
RR10 (H1)
RR18 (E3)
RR19 (E2)
RR20 (C6)
RR21 (A6)
RR22 (A6)
RR23 (A5)
RR24 (A5)
RR25 (A5)
RR26 (A5)
RR27 (A4)
RR8 (H1)
RR9 (H1)
SR1 (F4)
SR13 (G4)
SR17 (F4)
SR20 (F4)
SR21 (F4)
SR26 (E3)
SR31L (F3)
SR35 (F3)
SR6 (G4)
SR8 (F4)
SR9 (E3)
VSR10 (A2)

XXX CONDENSER XXX

AC1 (I2)
AC10L (I1)
AC10R (I0)
AC11L (J1)
AC11R (J2)
AC12L (I1)
AC12R (I1)
AC16L (I2)
AC16R (J2)
AC2L (I2)
AC2R (I2)
AC30 (F1)
AC4L (I1)
AC5L (I3)
AC5R (I3)
AC6L (I3)
AC6R (I3)
AC7L (I3)
AC7R (J3)
AC9L (I0)
AC9R (J0)
AUC2L (J5)
AUC2R (J5)
FC3 (G7)
HC11 (G6)
HC4 (H5)
HC5 (G5)
HC7 (G6)
IC1 (E7)
IC12 (H6)
IC13 (H6)
IC14 (G7)
IC17 (F6)
IC2 (F7)
IC20 (F6)
IC23 (F6)
IC24 (E6)
IC26 (F6)
IC27 (E6)
IC28 (E6)
IC4 (E7)
IC5 (E7)
IC6 (E7)
IC7 (E7)
IC8 (E7)
JC10L (C3)
JC10R (D2)
JC11L (D3)
JC11R (D2)
JC12L (C3)
JC12R (C2)
JC15L (C2)
JC15R (D2)
JC16 (C3)
JC17L (C1)
JC17R (C1)
JC18 (D3)
JC19 (D3)
JC20 (D4)
JC21 (D2)
JC22 (D2)
JC23 (D2)
JC25 (C1)
JC26 (D1)
JC27 (D1)
JC29 (D1)
JC30 (D1)
JC31 (D1)
JC33 (C2)
JC34 (C1)
JC35 (D2)
JC3L (D3)
JC3R (D2)
JC54 (E2)
JC55 (E1)
JC56 (E2)
JC57 (E1)
JC58 (E1)
JC7L (E3)
JC7R (D2)
LC1 (D5)
LC4 (D5)
LC5 (D6)
LC6 (C5)
LC7 (C5)
MC1 (B3)
MC10 (E5)
MC11 (D6)
MC13 (B7)
MC14 (B7)
MC15 (B7)
MC16 (D5)
MC22 (B6)
MC25 (B6)
MC26 (B6)
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MC6 (B3)
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MC62 (D6)
MC7 (D5)
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PC13 (D7)
PC14 (D7)
PC2 (D7)
PC3 (C6)
PC4 (D7)
QC18L (H4)
QC18R (I4)
QC1L (G5)
QC1R (H5)
QC20L (H4)
QC20R (I4)
QC21L (I4)
QC21R (I4)
QC27 (I4)
QC2L (H4)
QC2R (G4)
QC30 (I4)
QC3L (G4)
QC3R (G4)
QC4L (H5)
QC4R (G5)
QC7L (H4)
QC7R (H5)
QC8L (H4)
QC8R (I5)
RC1 (E1)
RC11 (G2)
RC13 (F2)
RC14 (F2)
RC15 (A4)
RC17 (E1)
RC2 (G2)
RC3 (F1)
RC4 (E1)
RC5 (F1)
RC6 (H2)
RC7 (H2)
RC8 (G2)
RC9 (H2)
SC10L (E3)
SC10R (E4)
SC1L (E4)
SC1R (E4)
SC2 (G4)
SC3 (E4)
SC4 (E4)
SC6 (G3)
SC8 (F4)
SC9L (G3)
SC9R (G3)
VSC1L (A2)
VSC1R (A3)
VSC2L (A2)
VSC2R (A3)
VSC3L (A2)
VSC3R (A2)
VSC4 (B1)

XXX DIODE XXX

AD1 (H2)
AD4 (G3)
AD5 (G2)
AD6 (I2)
AUD1 (J4)
AUD2 (J4)
FD1 (J5)
FD2 (J5)
HD1 (G6)
HZD1 (G6)
ID1 (E7)
ID2 (E7)
ID3 (F5)
IZD1 (F5)
JD1L (D2)
JD1R (D2)
JD2L (D1)
JD2R (D1)
JD3L (D1)
JD3R (D1)
JD4 (D3)
JD5 (C3)
JD51 (D4)
JD52 (D4)
JD53 (C4)
JD6 (C4)
JZD1 (D4)
LD1 (C6)
LD2 (C6)
MD61 (D6)
MD62 (D6)
PZD1 (C6)
QZD1 (I4)
RD1 (E1)
RD3 (H1)
RD8 (E3)
RZD1 (G1)
RZD2 (E1)
RZD5 (E2)
SZD1 (G3)
SZD2 (G4)

XXX TR XXX

AQ1L (I2)
AQ1R (I2)
AQ2 (E0)
AQ3 (G0)
AQ4 (H2)
B01 (H5)
BQ2 (H5)
BQ3 (G5)
BQ4 (I6)
CQ1 (G2)
CQ2 (G2)
CQ3 (F2)
CQ4 (F2)
IQ1 (F5)
IQ2 (F5)
IQ3 (E5)
IQ4 (E5)
IQ5 (G7)
IQ6 (G7)
JQ1L (E3)
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JQ2L (D3)
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JQ3L (D4)
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JQ55 (C4)
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JQ7 (D1)
JQ8 (C1)
JQ9 (D4)
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M02 (C6)
M03 (C6)
P01 (D7)
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RQ5 (A5)
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SQ2 (F4)
SQ3 (G4)
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VSQ1R (A2)
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AR6R (I1)
AR9L (I3)
AR9R (I3)
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AUC1R (J4)
AUC3 (J5)
AUC4 (J5)
AUC5 (J5)
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AUR1R (J4)
AUR2L (J4)
AUR2R (J4)
BC1 (I6)
BC2 (I6)
BC3 (I6)
BC4 (G5)
BC5 (I5)
BJW1 (I6)
BJW2 (I5)
BJW3 (I5)
BR1 (I6)
BR2 (H5)
BR4 (G5)
BR5 (I5)
BR6 (H5)
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CC1R (G3)
CC2 (G2)
CR1L (G2)
CR1R (G3)
CR2 (G2)
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CR3R (G3)
CR6 (F2)
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FC2 (H6)
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FC6 (I6)
FC7 (I7)
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FR1 (H6)
FR10 (G7)
FR11 (G7)
FR13 (I7)
FR2 (H7)
FR3 (H7)
FR4 (G7)
FR5 (G7)
FR6 (G7)
FR7 (G7)
FR8 (G7)
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HC2 (F6)
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HR12 (G5)
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HR16 (G5)
HR17 (G5)
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HR3 (H6)
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IC30 (E5)
IC9 (F7)
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IR11 (E7)
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IR15 (E5)
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IR4 (E7)
IR5 (E7)
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JC1R (E3)
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JC2B (C1)
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JC53 (E2)
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JC6R (D3)
JC8 (D3)
JC9L (D3)
JC9R (D2)
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JR1R (E3)
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JR28 (C4)
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JR32 (C4)
JR33 (D1)
JR35 (C1)
JR36 (C4)
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JR4L (D3)
JR4R (D2)
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JR55 (D5)
JR57 (E2)
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JR5R (D2)
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JR8L (D3)
JR8R (D2)
JR9L (C3)
JR9R (C3)
LC3 (D5)
LC1 (D5)
LR1 (D4)
LR10 (C5)
LR11 (D5)
LR2 (D4)
LR3 (D5)
LR4 (D5)
LR7 (C6)
LR8 (C5)
LR9 (C6)
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MC18 (C7)
MC19 (C7)
MC2 (B3)
MC20 (B7)
MC21 (C7)
MC3 (B2)
MC31 (C5)
MC32 (C6)
MC33 (C6)
MC4 (B2)
MC5 (B6)
MC52 (B2)
MC53 (B2)
MC54 (B2)
MC8 (D5)
MC9 (B6)
MIC1 (B6)
MIC2 (D5)
MJW10 (C6)
MJW14 (D6)
MJW15 (D6)
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MJW6 (B5)
MJW7 (B3)
MJW8 (B4)
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MR12 (C5)
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MR4 (B3)
MR5 (B2)
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MR53 (B2)
MR54 (B2)
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MR6 (C1)
MR60 (C6)
MR61 (C6)
MR62 (D6)
MR63 (D6)
MR7 (C1)
MR8 (B3)
MR9 (B6)
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PC17 (D7)
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PC6 (D7)
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PJW6 (C7)
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PR7 (D7)
PR9 (D7)
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QC10R (I5)
QC11L (H4)
QC11R (I5)
QC12L (H4)
QC12R (I5)
QC13L (H4)
QC13R (I4)
QC14L (H4)
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QJW50 (H4)
QR10 (I4)
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QR1R (H5)
QR2L (G4)
QR2R (H5)
QR3L (I4)
QR3R (I4)
QR4L (G5)
QR9L (G4)
QR9R (G4)
RJW50 (E1)
RR2 (E1)
RR3 (E1)
RR4 (E1)
SC7 (F4)
SIC1 (F4)
SJW2 (F4)
SJW21 (F3)
SJW22 (G4)
SJW23 (G3)
SJW24 (F3)
SJW25 (G4)
SJW51 (E4)
SJW9 (F4)
SR10 (F4)
SR11 (E3)
SR12L (E3)
SR12R (F4)
SR14 (E4)
SR15 (F4)
SR16 (F4)
SR18 (F4)
SR19 (F4)
SR2 (F4)
SR22 (F4)
SR23 (F4)
SR24 (F4)
SR25 (F3)
SR27 (F3)
SR28 (F3)
SR29 (F3)
SR3 (F3)
SR30 (F3)
SR31R (F4)
SR32 (F4)
SR33 (F3)
SR34 (G4)
SR36 (F3)
SR37 (E3)
SR38 (E3)
SR39 (G3)
SR4 (F4)
SR40 (G3)
SR41 (F3)
SR42 (F4)
SR43 (F4)
SR5 (E4)
SR7 (F4)
VJW1 (A2)
VJW2 (B2)
VSL1L (A2)
VSL1R (A1)
VSL2 (A2)
VSR1L (B3)
VSR1R (B3)
VSR2L (B3)
VSR2R (B3)
VSR3L (A2)
VSR3R (A3)
VSR4L (A2)
VSR4R (A3)
VSR5L (A2)
VSR5R (A2)
VSR6L (A2)
VSR6R (A2)
VSR7 (B1)
VSR7L (A2)
VSR7R (A2)
VSR8 (B2)
VSR9 (B2)

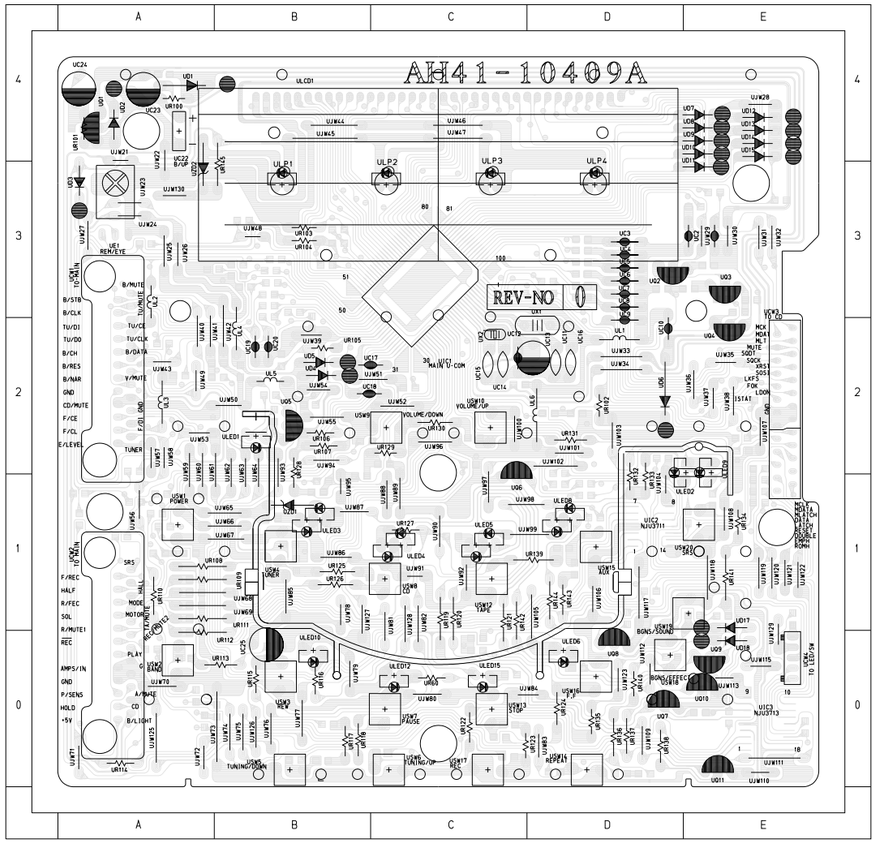
XXX IC&WAFER XXX

ACW1 (G2)
AUCW1 (J5)
ICF2 (F7)
IFT1 (G7)
IFT2 (F7)
JIC2 (E1)
JWC1 (D2)
LCW1 (D6)
MCW1 (C3)
QCW1 (I4)
RCW1 (E1)
RCW2 (A6)
RCW3 (A5)
RCW4 (A4)
RCW5 (A3)
RCW6 (A3)
VSCW1 (B1)
VSCW2 (B2)
VSCW3 (B3)

XXX CHIP XXX

X (I5)
X (I5)
AC13 (H2)
AC14L (I3)
AC14R (J3)
AC15 (H3)
AC3L (I2)
AC3R (I2)
AC4R (I2)
AC8L (I1)
AC8R (I1)
AIC2 (I3)
AJW2 (F2)
AJW54 (J3)
AR10L (I3)
AR10R (J3)
AR14L (I3)
AR14R (J3)
AR16L (I3)
AR16R (I3)
AR17 (I2)
AR18 (C1)
AR19 (G0)
AR1L (I2)
AR1R (I3)
AR20 (I2)
AR21L (I2)
AR21R (I2)
AR2L (I2)
AR2R (I3)
AR3L (I2)
AR5L (I1)
AR5R (I1)

10-2 Front



*** RESISTOR ***

UR100 (A4)
UR101 (A4)
UR102 (D2)
UR103 (B3)
UR104 (B3)
UR105 (B2)
UR106 (B2)
UR107 (B2)
UR108 (A1)
UR109 (A1)
UR110 (A1)
UR111 (A1)
UR112 (A0)
UR113 (A0)
UR114 (A0)
UR115 (B0)
UR116 (B0)
UR117 (B0)
UR118 (B0)
UR119 (C1)
UR120 (C1)
UR121 (C0)
UR122 (C0)
UR123 (C0)
UR124 (D0)
UR125 (B1)
UR126 (B1)
UR127 (C1)
UR128 (B1)
UR129 (B2)
UR130 (C2)
UR131 (D2)
UR132 (D1)
UR133 (D1)
UR134 (E1)
UR135 (D0)
UR136 (D0)
UR137 (D0)
UR138 (D0)
UR139 (C1)
UR140 (D0)
UR141 (E1)
UR142 (C1)
UR143 (D1)
UR144 (D1)
UR145 (B3)
UR60 (C0)

*** CONDENSER ***

UC10 (D2)
UC11 (D2)
UC12 (C2)
UC13 (D2)
UC14 (C2)
UC15 (C2)
UC16 (D2)
UC17 (B2)
UC18 (B2)
UC19 (B2)
UC2 (E3)
UC20 (B2)
UC23 (A4)
UC24 (A4)
UC25 (B0)
UC3 (D3)
UC4 (D3)
UC5 (D3)
UC6 (D3)
UC7 (D3)
UC8 (D3)
UC9 (D2)

*** DIODE ***

UD1 (A4)
UD10 (E4)
UD11 (E3)
UD12 (E4)
UD13 (E4)
UD14 (E4)
UD15 (E4)
UD17 (E1)
UD18 (E0)
UD2 (A4)
UD3 (A3)
UD4 (B2)
UD5 (B2)
UD6 (D2)
UD7 (E4)
UD8 (E4)
UD9 (E4)
UZD1 (B1)
UZD2 (A3)

*** TR ***

UQ1 (A4)
UQ10 (E0)
UQ11 (E0)
UQ2 (E3)
UQ3 (E3)
UQ4 (E2)
UQ5 (B2)
UQ6 (C1)
UQ7 (D0)
UQ8 (D0)
UQ9 (E0)

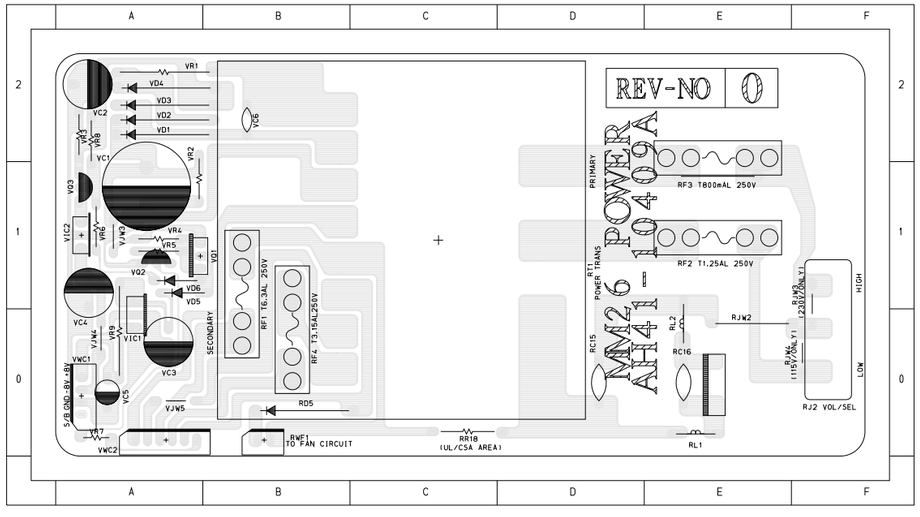
*** IC&WAFER ***

UC22 (A4)
USW1 (A1)
USW10 (C2)
USW12 (C1)
USW13 (C0)
USW14 (C0)
USW15 (D1)
USW16 (D0)
USW17 (D0)
USW18 (D0)
USW19 (E1)
USW2 (A0)
USW20 (E1)
USW3 (B0)
USW4 (B1)
USW5 (B0)
USW6 (C0)
USW7 (C0)
USW8 (C1)
USW9 (C2)

*** CHIP ***

X (B3)
UC27 (A3)
UC28 (B3)
UC29 (B3)
UC30 (B3)
UC31 (B2)
UC32 (A2)
UC33 (B2)
UC34 (B2)
UC35 (B2)
UC36 (B2)
UC37 (B2)
UC38 (B1)
UC39 (B1)
UC40 (C2)
UC41 (D2)
UC42 (C2)
UC43 (E2)
UC44 (E2)
UC45 (E2)
UC46 (E2)
UC47 (E1)
UC48 (E1)
UC49 (E1)
UC50 (A1)
UC51 (A1)
UC52 (A1)
UC53 (A1)
UC54 (A1)
UC55 (A0)
UJW1 (B3)
UJW10 (D0)
UJW10 (A0)
UJW11 (E0)
UJW12 (A1)
UJW13 (A1)
UJW14 (A1)
UJW15 (A0)
UJW16 (D0)
UJW2 (B3)
UJW3 (A2)
UJW4 (B2)
UJW5 (D3)
UJW6 (D3)
UJW7 (E3)
UJW8 (D1)
UJW9 (E1)
UJW9 (E1)
UR1 (E3)
UR10 (D3)
UR11 (C2)
UR12 (E3)
UR13 (C2)
UR14 (B2)
UR146 (E3)
UR146 (A4)
UR15 (B3)
UR16 (B3)
UR17 (B3)
UR18 (B3)
UR2 (E3)
UR20 (A4)
UR21 (A4)
UR22 (B3)
UR23 (E3)
UR24 (E3)
UR25 (B3)
UR26 (B3)
UR27 (B3)
UR28 (B2)
UR29 (C2)
UR3 (C3)
UR30 (B1)
UR31 (B1)
UR32 (A3)
UR34 (B1)
UR35 (E3)
UR36 (E1)
UR37 (D2)
UR38 (D2)
UR39 (D1)
UR4 (D3)
UR40 (D1)
UR41 (D1)
UR42 (D1)
UR43 (C1)
UR44 (D1)
UR45 (D1)
UR46 (D1)
UR47 (C1)
UR47 (E1)
UR48 (E0)
UR49 (E1)
UR5 (D3)
UR50 (E0)
UR51 (E0)
UR53 (D0)
UR54 (C0)
UR55 (C0)
UR56 (C0)
UR57 (C0)
UR58 (C0)
UR59 (C0)
UR6 (D3)
UR61 (B0)
UR62 (B0)
UR63 (C0)
UR64 (B0)
UR65 (A0)
UR66 (B0)
UR67 (B0)
UR68 (A0)
UR68 (A2)
UR69 (A1)
UR7 (D3)
UR70 (A1)
UR71 (A1)
UR72 (A1)
UR73 (A1)
UR74 (D0)
UR74 (E0)
UR75 (D0)
UR8 (D2)
UR9 (D3)

10-3 Power



*** RESISTOR ***

RR18 (C0)
VR1 (A2)
VR2 (A1)
VR3 (A2)
VR4 (A1)
VR5 (A1)
VR6 (A1)
VR7 (A0)
VR8 (A1)
VR9 (A0)

*** CONDENSER ***

RC15 (D0)
RC16 (E0)
VC2 (A2)
VC3 (A0)
VC4 (A1)
VC5 (A0)
VC6 (B2)

*** DIODE ***

RD5 (B0)
VD1 (A2)
VD2 (A2)
VD3 (A2)
VD4 (A2)
VD5 (A1)
VD6 (A1)

*** TR ***

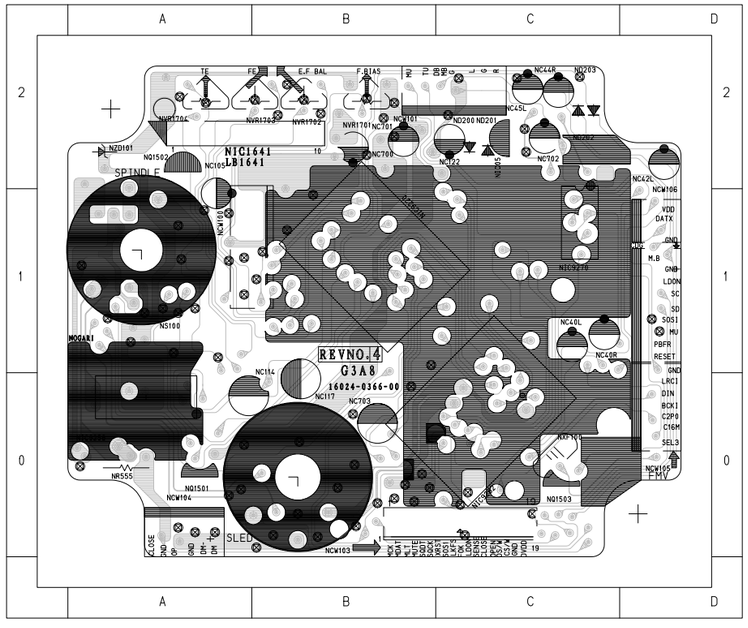
VQ2 (A1)
VQ3 (A1)

*** IC&WAFER ***

RWF1 (B0)
VIC2 (A1)
VQ1 (A1)
VWC1 (A0)
VWC2 (A0)

10-4 CD

10-4-1 Top View



*** RESISTOR ***

NR555 (A0)

*** CONDENSER ***

NC105 (A1)
NC114 (A0)
NC117 (B0)
NC122 (C2)
NC40L (C1)
NC40R (C1)
NC42L (D2)
NC44R (C2)
NC45L (C2)
NC700 (B2)
NC701 (B2)
NC702 (C2)
NC703 (B0)

*** DIODE ***

ND200 (C2)
ND201 (C2)
ND202 (C2)
ND203 (C2)
NZD101 (A2)

*** TR ***

NIC05 (C2)
NQ1501 (A0)
NQ1502 (A2)
NQ1503 (C0)

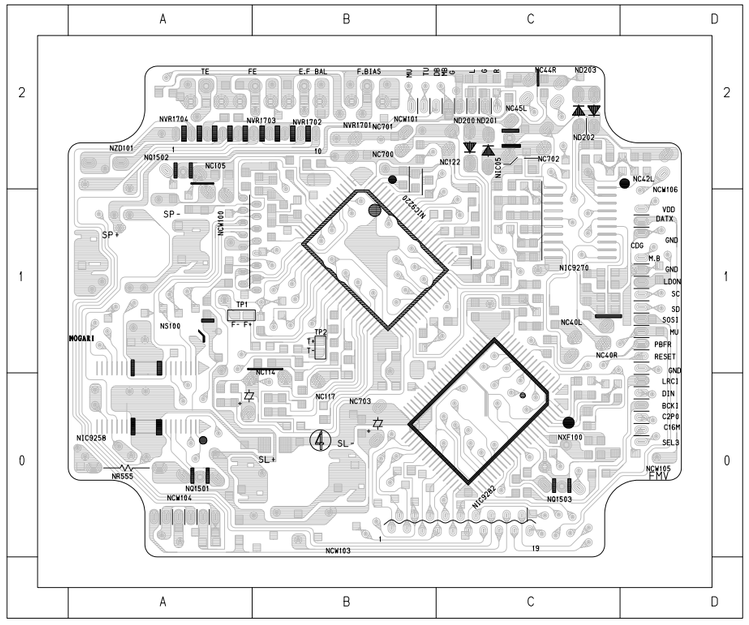
*** IC&WAFER ***

NCW101 (C2)
NCW104 (A0)
NCW105 (D1)
NCW106 (D1)

*** CHIP ***

103 (C0)
103 (B0)
NC100 (B1)
NC1000 (C1)
NC1001 (C1)
NC101 (B2)
NC102 (B2)
NC103 (B2)
NC104 (A2)
NC107 (B1)
NC108 (B1)
NC109 (A2)
NC110 (A2)
NC111 (B1)
NC112 (B1)
NC113 (B1)
NC115 (A0)
NC116 (B1)
NC118 (B0)
NC119 (C1)
NC120 (C1)
NC121 (C1)
NC124 (C1)
NC125 (C1)
NC190 (B2)
NC200 (C0)
NC2000 (B1)
NC201 (C0)
NC202 (C0)
NC203 (C0)
NC204 (C1)
NC205 (C1)
NC400 (C2)
NC41L (C1)
NC41R (C1)
NC42R (C2)
NC43L (C1)
NC43R (D2)
NC44L (C1)
NC45R (C2)
NC46L (C2)
NC500 (A2)
NC600 (D1)
NC601 (B1)
NC602 (C2)
NC603 (A0)
NIC9220 (B1)
NIC9258 (A0)
NIC9270 (C1)
NIC9282 (C0)
NL100 (B0)
NR100 (B1)
NR101 (A1)
NR102 (A1)
NR103 (B1)
NR104 (B1)
NR105 (B0)
NR106 (B0)
NR107 (B0)
NR108 (B0)
NR109 (B1)
NR110 (B0)
NR111 (A0)
NR112 (B0)
NR113 (C1)
NR114 (B1)
NR115 (C1)
NR116 (B2)
NR117 (B2)
NR118 (A2)
NR119 (C1)
NR190 (B2)
NR191 (B1)
NR200 (C0)
NR201 (C0)
NR202 (C0)
NR203 (C1)
NR204 (C1)
NR205 (C1)
NR40L (C1)
NR40R (C1)
NR41L (C1)
NR41R (C1)
NR42L (C1)
NR42R (C1)
NR43L (C1)
NR43R (C1)
NR44L (C1)
NR44R (C2)
NR45L (C1)
NR45R (C2)
NR46L (C1)
NR46R (D2)
NR47L (C2)
NR47R (C2)
NR601 (C0)
NR602 (C0)
NR603 (C0)
NR604 (C1)
NR605 (A1)
NR606 (B2)
NR607 (D0)
NR608 (C1)
NR609 (C2)
NR610 (A1)
NR611 (D2)
NR612 (B0)
NR613 (A0)
NRD (C1)

10-4-2 Bottom View



*** RESISTOR ***

NR555 (A0)

*** CONDENSER ***

NC105 (A1)
NC114 (A0)
NC117 (B0)
NC122 (C2)
NC40L (C1)
NC40R (C1)
NC42L (D2)
NC44R (C2)
NC45L (C2)
NC700 (B2)
NC701 (B2)
NC702 (C2)
NC703 (B0)

*** DIODE ***

ND200 (C2)
ND201 (C2)
ND202 (C2)
ND203 (C2)
NZD101 (A2)

*** TR ***

NIC05 (C2)
NQ1501 (A0)
NQ1502 (A2)
NQ1503 (C0)

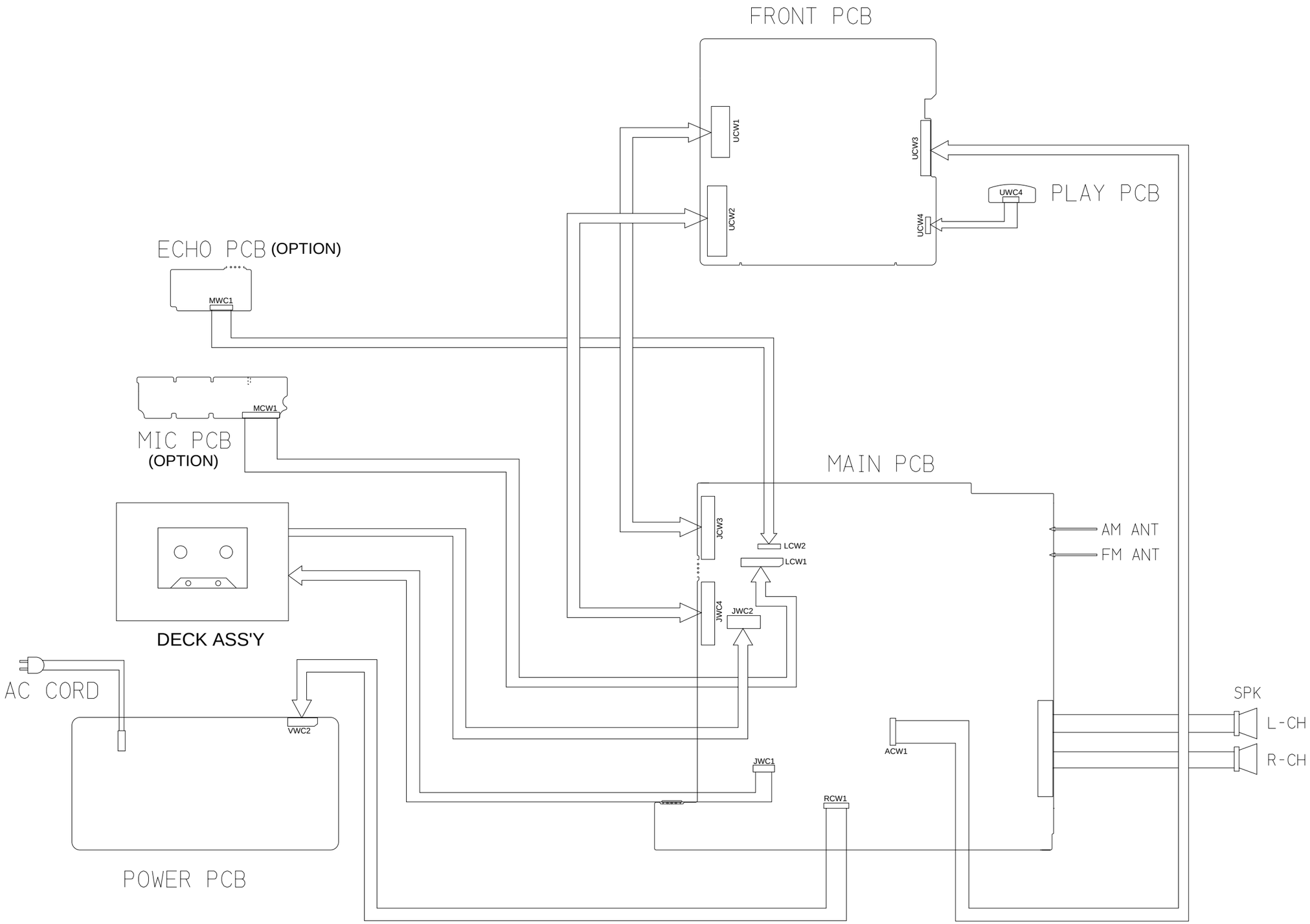
*** IC&WAFER ***

NCW101 (C2)
NCW104 (A0)
NCW105 (D1)
NCW106 (D1)

*** CHIP ***

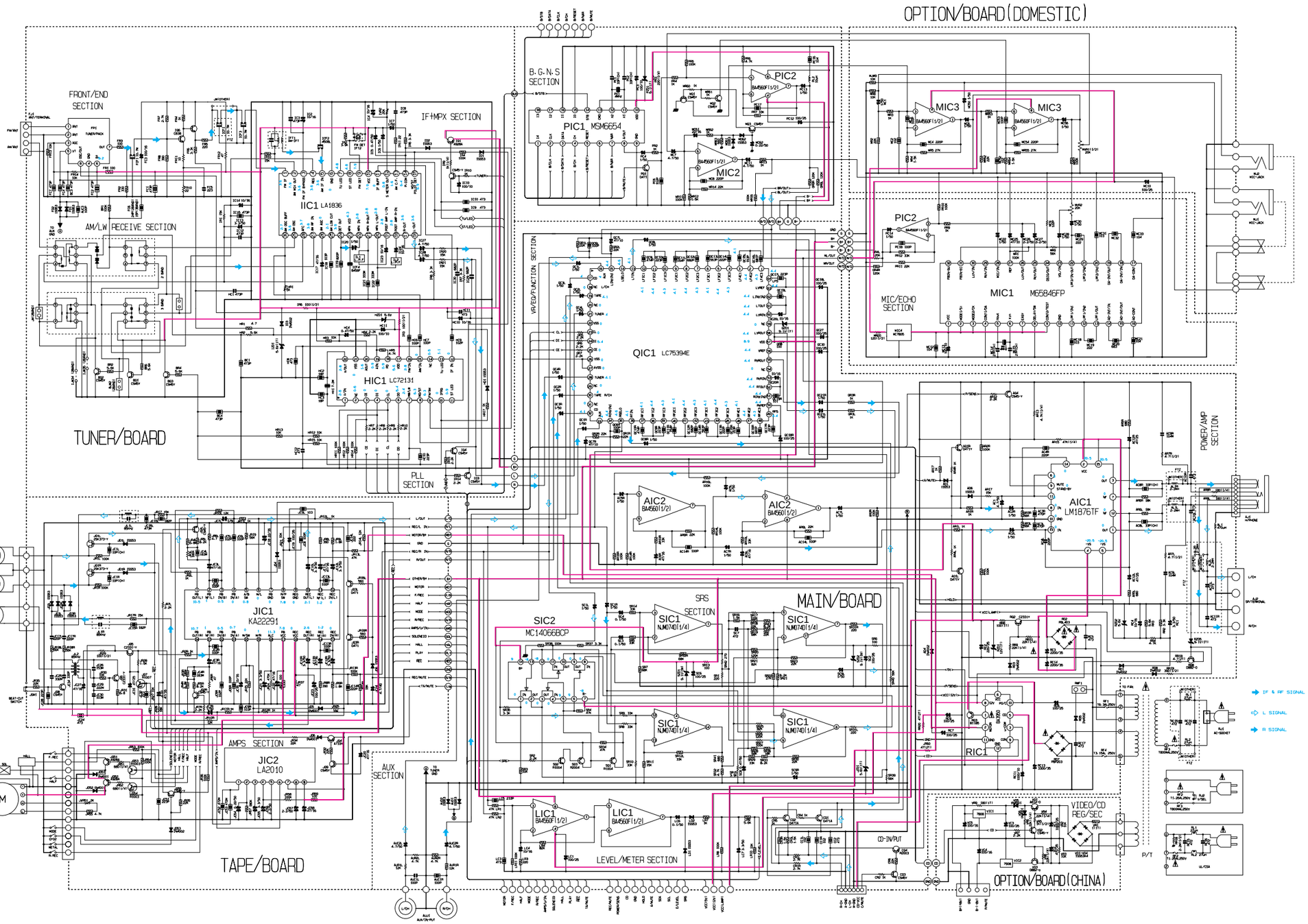
103 (C0)
103 (B0)
NC100 (B1)
NC1000 (C1)
NC1001 (C1)
NC101 (B2)
NC102 (B2)
NC103 (B2)
NC104 (A2)
NC107 (B1)
NC108 (B1)
NC109 (A2)
NC110 (A2)
NC111 (B1)
NC112 (B1)
NC113 (B1)
NC115 (A0)
NC116 (B1)
NC118 (B0)
NC119 (C1)
NC120 (C1)
NC121 (C1)
NC124 (C1)
NC125 (C1)
NC190 (B2)
NC200 (C0)
NC2000 (B1)
NC201 (C0)
NC202 (C0)
NC203 (C0)
NC204 (C1)
NC205 (C1)
NC400 (C2)
NC41L (C1)
NC41R (C1)
NC42R (C2)
NC43L (C1)
NC43R (D2)
NC44L (C1)
NC45R (C2)
NC46L (C2)
NC500 (A2)
NC600 (D1)
NC601 (B1)
NC602 (C2)
NC603 (A0)
NIC9220 (B1)
NIC9258 (A0)
NIC9270 (C1)
NIC9282 (C0)
NL100 (B0)
NR100 (B1)
NR101 (A1)
NR102 (A1)
NR103 (B1)
NR104 (B1)
NR105 (B0)
NR106 (B0)
NR107 (B0)
NR108 (B0)
NR109 (B1)
NR110 (B0)
NR111 (A0)
NR112 (B0)
NR113 (C1)
NR114 (B1)
NR115 (C1)
NR116 (B2)
NR117 (B2)
NR118 (A2)
NR119 (C1)
NR190 (B2)
NR191 (B1)
NR200 (C0)
NR201 (C0)
NR202 (C0)
NR203 (C1)
NR204 (C1)
NR205 (C1)
NR40L (C1)
NR40R (C1)
NR41L (C1)
NR41R (C1)
NR42L (C1)
NR42R (C1)
NR43L (C1)
NR43R (C1)
NR44L (C1)
NR44R (C2)
NR45L (C1)
NR45R (C2)
NR46L (C1)
NR46R (D2)
NR47L (C2)
NR47R (C2)
NR601 (C0)
NR602 (C0)
NR603 (C0)
NR604 (C1)
NR605 (A1)
NR606 (B2)
NR607 (D0)
NR608 (C1)
NR609 (C2)
NR610 (A1)
NR611 (D2)
NR612 (B0)
NR613 (A0)
NRD (C1)

11. Wiring Diagram

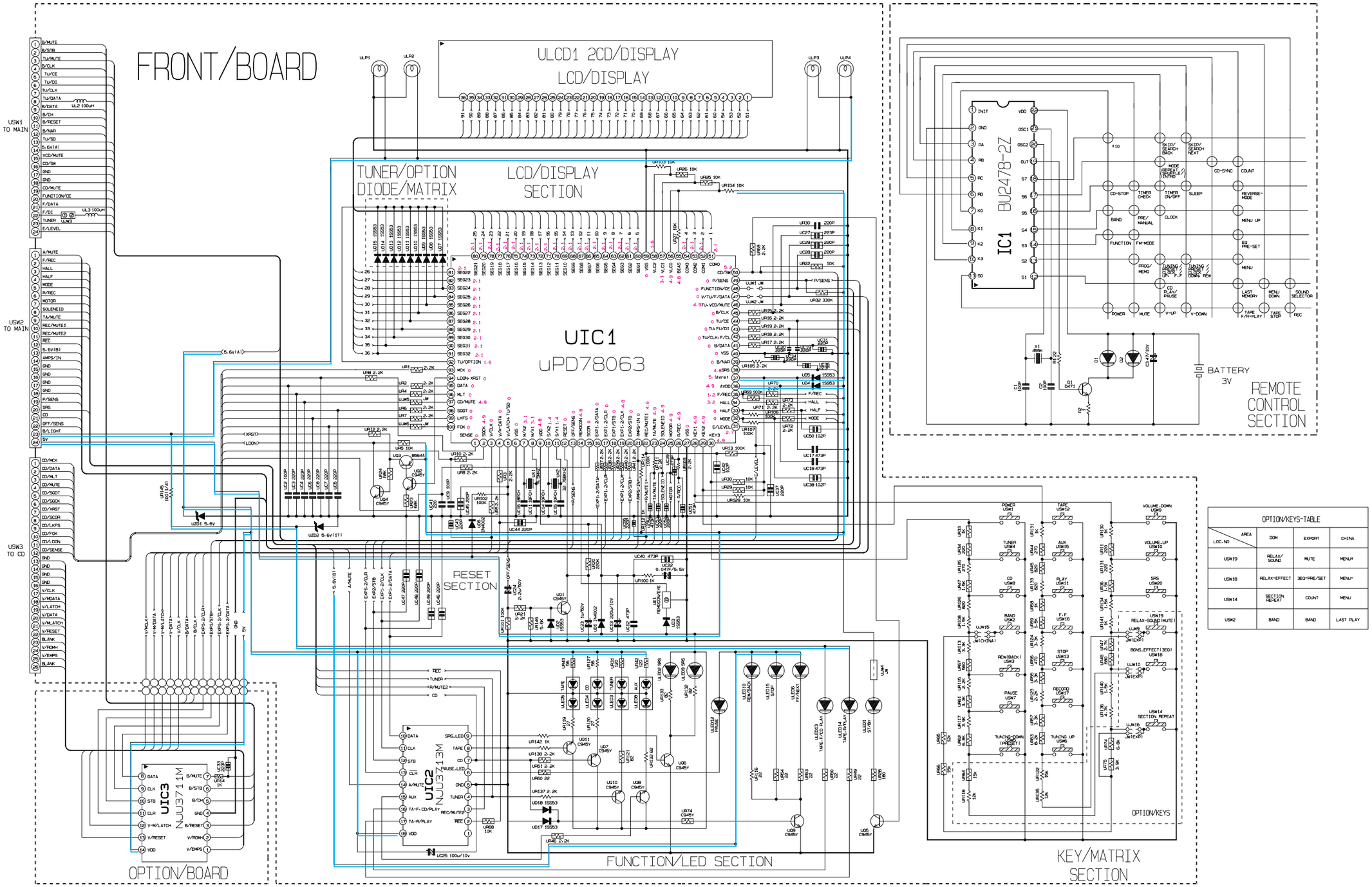


12. Schematic Diagrams

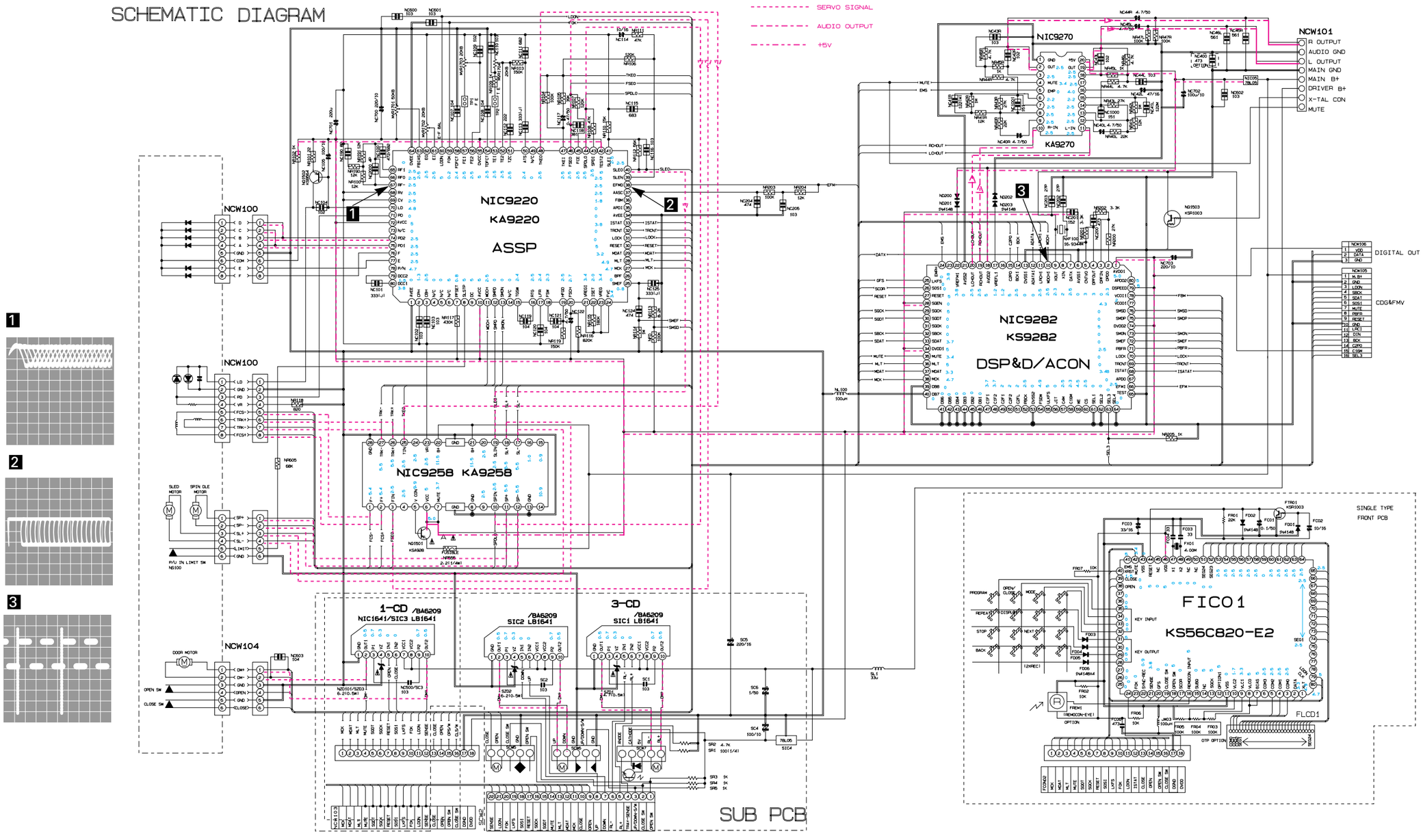
12-1 Main



12-2 Front



OPTION/KEYS-TABLE			
AREA / LOC.NO	DOM	EXPORT	CHINA
USW19	RELAX/ SOUND	MUTE	MENU+
USW18	RELAX-EFFECT	3EQ-PRE/SET	MENU-
USW14	SECTION REPEAT	COUNT	MENU
USW2	BAND	BAND	LAST PLAY

G3A8

SCHEMATIC DIAGRAM